

(2)

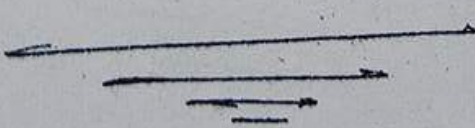
KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POST OF PMS (2018)

(ENGLISH ESSAY)

Time Allowed: 03 Hours

Maximum Marks: 100

NOTE: Attempt any one question in detail.

- Q1. "Terrorism has created religious fanaticism rather than the oft-projected reverse view that religious fanaticism has created terrorism". Produce arguments in favour of this statement.
- Q2. "Women's empowerment will create the revolution that we dream about." Explain.
- Q3. We need Idleness as much as work for healthy and creative living, argues Bertrand Russell. What would you say to support his view?
- Q4. Poverty reveals a nation's moral bankruptcy rather than absence of material resources.
- Q5. "Peace in South Asia is merely a dream." Give your view with arguments and analysis of the current political affairs.
- Q6. What are the causes and consequences of energy crisis in Pakistan?
- Q7. "A thing of beauty is joy forever." Produce arguments in favour of this comment.
- Q8. What is Pakistan's role in the New World Order?
- Q9. What is the plight of human rights in Pakistan?
- Q10. What should we do about the lure of custom and tradition in the world of change?
- 

COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL
MANAGEMENT SERVICES (BPS-17).

(2018)

ISLAMIYAT

TIME ALLOWED: 03 HOURS

MAX: MARKS: 100

- Note: (i) Attempt ... five questions in Urdu or English. Q:1 is compulsory.
(ii) All questions carry equal marks.

PART A

Q:1 Write the correct word in the blank.

(1) is the basic component of Islam.

(Tawheed, Risalat, Fate, Doomsday)

..... اسلام کا بنیادی عقیدہ ہے۔ (توحید، رسالت، تقدیر، قات)

(2) The literal meaning of "Zakat" is

(worship, Help, neatness, obligation)

زکوٰۃ کے لغوی معنی کے ہیں۔ (عبادت، امداد، طہارت، قرب)

(3) Life of the Prophet (P.B.U.H) is for you.

(Advice, Lesson, Role Model, Mirror)

رسول اللہ صلی اللہ علیہ وسلم کی زندگی میں تمہارے لیے بہترین ہے۔ (نصیحت، عبرت، نمونہ، آئینہ)

(4) Prophet (P.B.U.H) was years old on the eve of her mother death.

(8, 6, 10, 12)

والدہ کی وفات کے وقت رسول اللہ صلی اللہ علیہ وسلم کی عمر برس تھی۔ (8، 6، 10، 12)

(5) In the Court of King Habsha Hazrat recited

Surah Maryam.

(Umar R.A, Ali R.A, Zaid R.A, Jafar R.A)

شاہ حبشہ کے دربار میں حضرت نے سورۃ یوسف کی تلاوت کی۔ (عمرہ، علی، زید، جعفر)

(6) Youmul Furgan means

(Hudaibia Pact, Ghazwani Uhad, Badar, Bait-e-Rizwan)

یوم الفرجان سے مراد ہے۔ (صلح حدیبیہ، غزوہ اُحد، غزوہ بدر، بیت الرضوان)

(7) Macca was conquered in Hija (8th, 6th, 5th, 10th)

مکہ منظمہ میں فتح ہوا۔ (8، 6، 5، 10)

(8) In Ghazwani Tabook, the number of Islamic Army was thousand.

(20, 30, 40, 50)

غزوہ تبوک میں اسلامی فوج کی تعداد ہزار تھی۔ (20، 30، 40، 50)

(9) The number of Arqan - e - Islam is (4, 5, 6, 3)

ارکانِ اسلام کی تعداد ہے۔ (3، 6، 5، 4)

(10) There were tribes of Jews in Madina (5, 4, 3, 2)

مدینہ میں یہودیوں کے قبیلے تھے۔ (2، 3، 4، 5)

PART B

Attempt any Four questions :-

- Q. II What is meant by Aqeeda-e-Towheed. Also discuss its impact on individual as well as collective lives of human beings.
 عقیدہ آخرت سے کیا مراد ہے؟ نیز انسانی زندگی پر عقیدہ آخرت کے انفرادی اور اجتماعی اثرات بیان کریں۔
- Q. III Elucidate "Zakat is a treasure of Islam". Also discuss its economical and social benefits.
 "زکوٰۃ اسلام کا خزانہ ہے" مندرجہ بحث کیجئے۔ نیز زکوٰۃ کے معاشی اور معاشرتی فوائد بیان کریں۔
- Q. IV Islam has presented a complete Code of morality. Discuss this statement in the light of Quran, Hadith and life of Prophet (P.B.U.H).
 اسلام نے اخلاقیات کا ایک جامع نظام پیش کیا ہے۔ قرآن مجید، حدیث اور سیرت رسول اللہ ﷺ کی روشنی میں تبصروں۔
- Q. V For its completeness and perfection, Islam does not need any other ism (system). Discuss.
 اسلام کی جامعیت اور کاملیت کسی دوسرے ازم کا محتاج نہیں۔ سیرت اہل بیت علیہم السلام کی روشنی میں تبصروں۔
- Q. VI Describe the rights of parents in the light of Quran and Hadith.
 قرآن مجید و حدیث کی روشنی میں حقوق والدین بیان کریں۔
- Q. VII
- مِنْ أَجْلِ ذَٰلِكَ ۖ كَتَبْنَا عَلَىٰ ابْنِ إِسْرَءِيلَ أَنَّهُ مَن قَتَلَ نَفْسًا تُجَنِّبُ نَفْسًا
 أَوْ فَسَادَ فِي الْأَرْضِ فَكَأَنَّمَا قَتَلَ النَّاسَ جَمِيعًا ۖ وَمَنْ أَضَاهَا فَكَأَنَّمَا
 أَضَاهَا النَّاسَ جَمِيعًا ۖ وَلَقَدْ مَاءُ نَحْمُ وَرُسُلْنَا بِالْبَيْتِ زَنًّا إِنَّ تَشِيرًا نَحْمُ
 بَعْدَ ذَٰلِكَ فِي الْأَرْضِ لَمُتَشَرِّفُونَ ۝
- Translate the above Versus in English or Urdu.
 Discuss that killing human-beings and spreading disturbance in the world is a great sin.
 درجہ بالا آیات کا اردو یا انگریزی میں ترجمہ کریں اور واضح کریں کہ قتل انسانیت اور فساد فی الارض بہت عظیم گناہ ہے۔

5

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POST OF PMS (2018)

(PAPER: PAKISTAN AFFAIRS)

Time Allowed: 03 Hours

Total Marks: 100

NOTE: (1) Attempt only five questions in all including Question No.1 which is compulsory.
(2) Extra attempt of any question or any part will not be considered.
(3) Candidate must draw two straight lines at the end of each question.

Q.1. Select the best option/answer.

(20)

- i). Hazrat Mujadid Alf Thani was the disciple of :
(a) Kh. Moinudin Chishti (b) Kh. Muhammad Baqi Billah
(c) Nizamudin Aulya (d) None of these
- ii). Which of the following article are related to fundamental rights in the 1973 constitution?
(a) 1 to 6 (b) 8-28
(c) 29-40 (d) None of these
- iii). Which mountain is called Chogori?
(a) Masherbrum (b) K2
(c) Rakaposhi (d) Nanga Parbat
- iv). Who is the author of the poem Padmavati?
(a) Amir Khusro (b) Malik Muhammad Jayasi
(c) Waris Shah (d) None of these
- v). Who is the incumbent assistant secretary of state for South Asian and central Asian affairs?
(a) Mike Pence (b) Alice G Wells
(c) William Todd (d) None of these
- vi). Wafa is the news agency of:
(a) Syria (b) Palestine
(c) Lebanon (d) None of these
- vii). Author of the book "The struggle for Pakistan" is:
(a) I. H. Qureshi (b) Syed Ameer Ali
(c) Hassan Askari (d) None of these
- viii). One US barrel is equal to:
(a) 50 liters (b) 100 liters
(c) 159 liters (d) None of these
- ix). AIIIB was formally established on:
(a) 25th December 2013 (b) 25th December 2014
(c) 25th December 2015 (d) None of these
- x). The largest agency of FATA by population is:
(a) South Waziristan (b) Khyber
(c) North Waziristan (d) None of these
- xi). Diamir Bhasha Dam is planned on the river:
(a) Indus (b) Jhelum
(c) Neelum (d) None of these
- xii). National anthem of Pakistan was composed by:
(a) Hafiz Jaladhri (b) Ch. Rehmat Ali
(c) Ahmad Ghulamali Chagla (d) None of these

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- xiii). The UN resolution against Trump's decision recognizing East Jerusalem as Israel's capital was jointly moved by the states:
 (a) Iran & Pakistan (b) Saudi Arabia & Egypt
 (c) Pakistan & Turkey (d) None of these
- xiv). Dars-e- Nizamia was named after:
 (a) Nizamuddin Aulya (b) Mullah Nizamudin
 (c) Nizamul Mulk Tausi (d) None of these
- xv). Khawaja Nazimudin ministry was dissolved in:
 (a) October 1950 (b) October 1953
 (c) October 1954 (d) None of these
- xvi). Who floated the idea of establishment of Anjuman-e-Hamiat-e-Islam?
 (a) Maulana Shibli (b) Kh. Hamid-ud- Din
 (c) Munshi Charag Din (d) None of these
- xvii). Who was appointed the first principal of Darul ulum Deoband?
 (a) Maulana Mamluk Ali (b) Haji Muhammad Abid
 (c) Maulana Muhammad Qasim (d) None of these
- xviii). Who was the author of "Emergence of Pakistan"?
 (a) I.H Qureshi (b) Waheed-ud-Zaman
 (c) Muhammad Ali Ch. (d) None of these
- xix). Who was the head of 1973 constitutional committee?
 (a) Z.A Bhutto (b) Justice Shahabudin
 (c) Abdul Hafeez Pirzada (d) None of these
- xx). Who was the mover of the resolution in the National Assembly declaring Qadianies as non Muslims?
 (a) Maulana Yousaf Banori (b) Shah Ahmad Noorani
 (c) Maulana Mufti Mehmood (d) Maulan Ghaus Hazarvi

- Q2. Describe contribution of Sheikh Ahmad Sirhindi to Muslim society of India. (20)
- Q3. Critically evaluate causes of the dissolution of the first constituent assembly of Pakistan and its impact on the subsequent history. (20)
- Q4. Discuss causes of East Pakistan debacle in the light of Hamud-ur-Rehman commission report. (20)
- Q5. Discuss Trump's National Security Strategy (NSS) for South Asia and its implications on Pakistan. (20)
- Q6. Critically analyze civil-military relations during the last five years. (20)
- Q7. Discuss economic impacts of climate change on Pakistan. (20)
- Q8. Describe current geo-strategic scenario in the light of predictions by Hazrat Naimatullah Shah Wali R.A. (20)



KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
Provincial Management Services Officers (PMS) In-Service Quota 2018

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PAPER: ENGLISH GRAMMAR & COMPOSITION

TOTAL MARKS : 100

TIME DURATION: 03 HOURS

SECTION (A) ENGLISH ESSAY (30 MARKS)

Write a comprehensive essay on any one of the given topics. Your essay must build persuasive argument validating your perspective.

- 1 When life gives you lemons, make a lemonade.
- 2 The Concept of Economic Sanctions: A New Form of Colonization
- 3 Kashmir Dispute and its Impact on the Region
- 4 Gender Equality: An Illusion
- 5 The Effect of Internet on Human Relations ✓
- 6 CPEC: The Prospects and Doubts
- 7 Pros and Cons of the Power of Media in Politics.
- 8 Tax Evasion and Responsibility of the Civil Society
- 9 The Effect of Rising Popularity of Fast Food
- 10 "To live is the rarest thing in the world. Most people exist, that is all"

SECTION (B) ENGLISH PRECISE & COMPOSITION (MARKS 70)

Note: Attempt all questions:

Q. 1: Read the following text and answer the question given at the end. The answers must be in your own words: (20 Marks)

Among the natural resources that can be called upon in national plans for development, possibly the most important is human labour. Since English language suffers from a certain weakness in its ability to describe groups composed of both male and female members, this is usually described as manpower.

Without a productive labour force, including effective leadership and intelligent middle management, no amount of foreign assistance or of natural wealth can ensure successful development and modernization.

The manpower for development for the next quarter century will come from the world's present population of infants, children and adolescents. But we are not sure they will be equal to the task. Will they have the health, the education, the skills, the socio-cultural attitudes essential for the responsibilities of development?

For far too many of them the answer is no. The reason is basic. A child's most critical years, with regard to physical, intellectual social and emotional development, are those before he reaches five years of age. During those critical formative years, he is cared for almost exclusively by his mother, and in many parts of the world the mother may not have the capacity to raise a superior child. She is incapable of doing so because of her own poor health, her ignorance and her lack of status and recognition of social and legal rights, of economic parity and of independence.

One essential factor has been overlooked, in fact completely ignored in perceptions on development. This forgotten factor is the role of woman. Development will be handicapped as long as women remain second class citizens, uneducated, without any voice in family or community children, and thereafter producing one baby after another, often only to see half of them die before they reach school age.

We can enhance development by improving women power, by giving women the opportunity to develop themselves. Statistics show that the average family size increase is in inverse ratio to the mother's years of education. It is lowest among college graduates, highest among those

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with only primary school training or no education. Malnutrition is most frequent in large families, and increase in frequency with each additional sibling.

The education level of women is significant also because it has direct influence upon their chances of employment, and the number of employed women in a country's total labour force has a direct bearing on the Gross National Product and the disposable income of the individual family. Disposable income, especially in the hands of women, influences food purchasing and therefore the nutritional status of the family. The fact that this additional income derives from the paid employment of women provides a logical incentive to restrict the size of the family.

Questions:

- I. According to this passage which factors together constitute a productive labour?
- II. In what ways does lack of education affect the family?
- III. How have women been marginalized?
- IV. What different means have been suggested to empower women?
- V. What is disposable income? How does a woman's disposable income contribute towards the economic strength of the country?

Q. 2: Write a precise of 100 words of the following passage. Suggest a suitable title. (20 Marks)

Nothing sharpens a people's wits like poverty. Hence many of the greatest people have originally been poor. Poverty often purifies and braces a people's morals. To spirited people, difficult tasks are usually the most delightful ones. If we may rely upon the testimony of history, people are brave, truthful, and magnanimous not in proportion to their wealth, but to their smallness of means. And the best are often the poorest – always supposing that they have sufficient to meet their temporal wants. As is said, "God has created poverty but He has not created misery". And there is certainly a great difference between the two. While honest poverty is honourable, misery is humiliating, in as much as the latter is for the most part the result of misconduct and often of idleness. Poverty is no disgrace to him who can put up with it, but he who finds the beggar's staff get warm in his hand, never does any good, rather a great amount of harm. The poor are often the happiest of people – far more so than the rich, but though they may be envied, no one will be found willing to take their place.

Q. 3: Use any five words from the list below in your sentences clearly bringing out their meanings. (10 Marks)

- | | | |
|-----------|-------------|--------------|
| I. Banal | IV. Tint | VII. Amalgam |
| II. Eerie | V. Chasm | VIII. Zenith |
| III. Gab | VI. Bizarre | |

Q. 4: Rewrite the given sentences by incorporating the instructions given in parenthesis. (10 Marks)

- I. But for the Ministerial intervention, he would have spent the night in jail. **(Rewrite the sentence beginning with "IF")**
- II. I looked back at the shore. It seemed a long way _____. **(Fill in the blank with an appropriate preposition).**
- III. The telephone _____ several times before I answered it. **(Fill in the blank with a correct verbal phrase).**
- IV. The controller of examinations has announced the results. **(Change into passive voice).**
- V. I was not led to the university by conventional middle class ambitions my grip on middle class was more tenuous than that on the school system. **(Punctuate the sentence)**

Q. 5: Use any five of the following idioms and phrases in your sentences clearly bringing out their meanings: (10 Marks)

- | | |
|--------------------------|-----------------------------------|
| I. Achilles' heel | V. Nip in the bud |
| II. Keep fingers crossed | VI. To pay through the nose |
| III. Win laurels | VII. A Parthian Shaft |
| IV. Man of straw | VIII. Rome was not built in a day |

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POST OF PMS (2018)

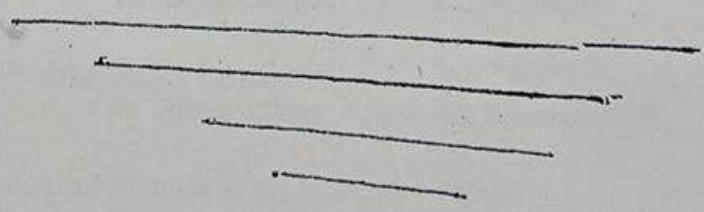
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GENERAL KNOWLEDGE (CURRENT AFFAIRS)

Time Allowed: 03 Hours

Total Marks: 100

NOTE: Attempt only five questions.

- Q1. Do you agree that the current international system is based on the principle of Power Politics? (20)
- Q2. Discuss the policies and interests of Great Powers in Syrian conflict. (20)
- Q3. Suggest ways to normalize relations between Saudi Arabia and Iran. (20)
- Q4. Define deterrence and explain how does it keep peace between two rival states. (20)
- Q5. India has been creating number of problems for Pakistan. Suggest policy option for Pakistan. (20)
- Q6. What is the significance of Panama Papers? Do you think they will help eradicate corruption? (20)
- Q7. Write short notes on any two of the following: (20)
- i) Cold war
 - ii) United Nations
 - iii) CPEC
- 



KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
Provincial Management Services Officers (PMS) In-Service Quota

44

2018

PAPER: CURRENT AFFAIRS / EVERYDAY SCIENCE

TOTAL MARKS : 100

TIME DURATION: 03 HOURS

Note: Attempt five (05) of the following questions and least two (02) from each section. Each question carries 20 Marks.

SECTION (A) CURRENT AFFAIRS

1. Critically examine judicial activism in Pakistan.
2. Discuss US-Russia rivalry in the Middle East and its implications on the Syrian conflict.
3. Critically analyze China's strategic vision behind Belt and Road Initiative (BRI).
4. Describe strategic importance of Indus Waters Treaty in the emerging water dispute between India and Pakistan.
5. Critically analyze outcomes of National Action Plan (NAP).

SECTION (B) EVERYDAY SCIENCE

1. Explain water cycle.
2. What are vaccines? Discuss DNA vaccines in detail.
3. What do you know about the Remote Sensing Techniques? Explain its resolution and various types.
4. Explain Green House Effect and its relation with global warming?
5. What is an EPM? Differentiate between nuclear and non nuclear electromagnetic pulse?

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POST OF PMS (2018)
(EVERYDAY SCIENCE)

4

Time Allowed: 03 Hours

Maximum Marks: 100

NOTE: Attempt any FIVE questions.

- Q.No.1:** a. Briefly describe the services of biology for mankind. (10+10)
b. Define: Genetics, Ecology and Biotechnology.
- Q.No.2:** a. Describe the function of arteries, veins and capillaries. (10+10)
b. Explain in detail the cardiac cycle.
- Q.No.3:** Differentiate between: (4 marks each)
a. DNA and RNA
b. Climate and Weather
c. Phenotype and genotype
d. Fertilizer and Pesticides
e. Microscope and Telescope
- Q.No.4:** What is food poisoning? Give its symptoms and causes. (20)
- Q.No.5:** Give the Correct answer from the given multiple choices. (20)
- i) The branch of biology which deals with abnormal development and its causes is termed as;
A. Gerontology B. Teratology C. Embryology D. Cytology
- ii) The increase water supply to the human body results in decrease secretion of the hormone;
A. Glucagon B. Oxytocin C. Insulin D. Antidiuretic
- iii) A typical human chromosome contains nucleotide about;
A. 100 million B. 120 million C. 140 million D. 160 million
- iv) The enzyme luciferase is produced by an insect commonly called as;
A. House fly B. Fire fly C. May fly D. Fruit fly
- v) During DNA finger printing the pattern of DNA is recorded on;
A. Photographic film B. X-ray film C. Paper D. Computer
- vi) Green color blindness is called;
A. Protanopia B. Deutanopia C. Tritanopia D. Unitanopia
- vii) The coconut milk contains the hormones;
A. Auxins B. Gibberellins C. Abscissic acid D. Cytokinins
- viii) Negative physiological changes in our bodies are called;
A. Degeneration B. Regeneration C. Aging D. Abnormalities
- ix) Tumors are induced by;
A. Bacteria B. Viruses C. Fungi D. Protozoan
- x) Which of the following is used to remove nitrogenous waste in patients suffering from chronic renal failure?
A. Lithotripsy B. Dialysis C. Uremia D. Pyrexia
- Q.No.6:** Write short notes on any TWO of the following; (10+10)
a. Black Hole b. Dengue Virus c. Semiconductors
- Q.No.7:** Differentiate between a camera and a human eye. Describe the working principle of a camera. (20)
- Q.No.8:** What are lipids? Describe different type as per their classification. (20)

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POST OF PMS (2018)

(ECONOMICS PAPER-I)

Time Allowed: 03 Hours

Total Marks: 100

NOTE: Attempt any five questions in all, selecting at least two questions from each part. Support your answers by suitable diagrams/mathematical treatment, where necessary. Keep up to the point and avoid unnecessary details.

- Q1.** Explain and illustrate the law of diminishing marginal utility. Discuss the assumptions, exceptions and importance of this law.
- Q2.** Distinguish between extension and contraction of demand and rise and fall in demand. On what factors change in demand depends?
- Q3.** What is meant by iso-product curves? Explain firm's equilibrium by the help of iso-product and iso-cost curves.
- Q4.** Write a compressive notes on any two of the following:
- i) Determinants of demand.
 - ii) Properties of indifference curve and budget line.
 - iii) Nature of prefect competitions.

PART-B

- Q5.** Discuss the carious concepts of national income. Mention the difficulties involved in the measurement of national income.
- Q6.** Discuss the various canons of taxations and distinguish between progressive and proportional taxations.
- Q7.** Discuss the role of central bank as:
- i) The note issuing agency.
 - ii) Banker of the state.
 - iii) As bankers bank.
- Q8.** What do you understand by the term balance of payment? How does disequilibrium arises in the balance of payment and how does it can be corrected.
-


KHYBER PAKHTOON KHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL
MANAGEMENT SERVICE (BPS-17) 2018

ECONOMICS PAPER-II

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

Note: Attempt any FIVE questions. All questions carry equal marks.

- Q1:** Define economic development and economic growth. Discuss the main measures of economic development in detail.
- Q2:** Define Absolute and Relative Poverty. Explain the poverty reduction strategies in Pakistan.
- Q3:** Define the concept of land reforms. Explain the defects of land tenure system in Pakistan in detail.
- Q4:** What policies or measures government has taken to promote the manufacturing sector?
- Q5:** Explain the foreign trade performance of Pakistan.
- Q6:** Explain the role of migration and remittances in Pakistan's economy.
- Q7:** Give a critical overview of economic planning in Pakistan. Explain the Factors inhibiting effective planning in Pakistan.
- Q8:** Explain the objective of nationalization policy and its problems.
- 

COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL
MANAGEMENT SERVICES (PBS-17) 2018

Business Administration

TIME ALLOWED: 03 HOURS

MAX: MARKS: 100

Note: Attempt only FIVE questions in all by selecting at least ONE question from each part.

Part - I: Management

1. How does the management of for-profit organizations differ from the management of not-for-profit organizations? What are the four management functions and how do they interrelate? (10+10 marks)

2. What are programmed and non-programmed decisions? Why do top managers usually tackle the non-programmed decisions? (10+10 marks)

3. What is organizational politics? How does it affect the organization's ability to meet goals? (10+10 marks)

Part - II: Marketing

4. What is the difference between a need, a want, and a demand? Describe the need versus the want for product like: Olpers, Nokia, and Colgate? (10+10 marks)

5. Identify and define considerations for evaluating marketing segments for market targeting. What kind of market coverage strategies can be developed? Explain. (10+10 marks)

Part - III: Financial Management

6. AMD Company is growing quickly. Dividends are expected to grow at a 32 percent rate for the next three years, with the growth rate falling off to a constant 7 percent thereafter. If the required return is 15 percent and the company just paid a \$2.25 dividend, what is the current share price? (20 marks)

7. Write the short notes on the following:

1. Du pont identity.
2. Time value of money.

(10+10 marks)

8. Diamond Inc. has net working capital of \$1,050, current liabilities of \$4,300, and inventory of \$1,300.

- A. What is the current ratio?
- B. What is the Quick ratio?

(10+10 marks)

KHYBER PUKHTOONKHWA PUBLIC SERVICE COMMISSION
PM 5 - 2018
PUBLIC ADMINISTRATION

TIME ALLOWED: 3 HOURS

MAX MARKS:100

NOTE: Attempt Any Five Questions. All Questions Carry Equal Marks.

1. Explain the nature and scope of Public Administration in the context of Pakistan in comparison to a modern welfare state.
 2. Weber's theories were essentially an attempt to ensure social acceptance of bureaucracy. Do you agree? Discuss.
 3. The prismatic model of Riggs is equally applicable to developing as well as developed society. Comment
 4. Do you think there is a sort of paradox between e-governance and good governance? Fully explain.
 5. Explain Organization, its types, theories and principles of organization. Comment on the salient features of federal and provincial governments in Pakistan.
 6. Coalition politics of contemporary time is, at times, at war with the ideas of planning commission. Comment.
 7. Simon's decision-making theories and techniques are of little use to Public Administration. Critically Examine
 8. Cost-benefit analysis is a very unsatisfactory view of analysing public policy. Comment
-

(9)

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

Political Science Paper-I

TIME ALLOWED: 03 HOURS

MAXIMUM MARKS:100

Note: Attempt five questions in all selecting at least TWO from each section. All questions carry equal marks

SECTION-A

1. Examine the main similarities and differences in the political ideas of Plato and Aristotle
2. "Is it correct to call Machiavelli citizen of all states and contemporary of all ages?" comment
3. Discuss Marxian concept of Surplus Value and Proletarian Dictatorship.
4. Discuss in detail the importance of Ijtehad in Islamic jurisprudence with special reference to Iqbal.

SECTION-B

5. Communism ruled a large population of the world but could not survive, discuss the causes of its failure.
 6. What is the significance of the role of judiciary in a state? Discuss the essentials of the independence of the judiciary.
 7. Federation is considered the best device for "Multi Ethnic" states. Write various techniques and tools for successful and efficient working of this system.
 8. What is public opinion? How public opinion is formed and can be measured.
-

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION, PESHAWAR
COMPETITIVE EXAMINATION FOR THE POST OF PROVINCIAL
MANAGEMENT SERVICE (BPS-17) 2018

Political science, paper-2

Time Allowed: Three Hours

Maximum Marks: 100

Note: Attempt five questions and select at least two questions from each part. All question carry equal marks.

Part-1

- Q.1 Do you agree that British Political System is known for the Cabinet's dictatorship? Give your arguments for or against this idea.
- Q.2 Discuss the Committee System in American Congress. Also compare it with the British Committee System.
- Q.3 Discuss the powers of the president of France under the Fifth Republic.
- Q.4 Examine the principle of Democratic Centralism in the political system of the former Soviet Union.

Part-2

- Q.5 Explained the silent features of Iran's Political System.
 - Q.6 Discuss in detail the problems presently being faced to the Federation of Pakistan.
 - Q.7 Write an essay on the role of the Communist Party in the Chinese Politics.
 - Q.8 Write Short Notes on:
 - A. Secularism in India.
 - B. The role of army in the Political System of Turkey.
-

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

2018

Agriculture

TIME ALLOWED: 03 HOURS

MAX: MARKS: 100

Note: i) Attempt any five (05) questions
ii) Extra attempt of any question or any part will not be considered

- Q.1. Soil fertility is low in Pakistan. why? Give reasons and discuss how fertilizer use efficiency could be increased to improve soil fertility and get higher yields. (20)
- Q.2. What is sustainable agriculture? Elaborate the role of sustainable agriculture in food security in the changing climatic scenario. (20)
- Q.3. Climate change: A burning issue of today's agriculture. Elaborate in detail the negative and positive effects of climate change on agricultural productivity of Pakistan. (20)
- Q.4. There are some principles and elements of designs in landscape gardening, what are these? Describe each in detail in the present scenario of climate change. (20)
- Q.5. What are the main causes of post harvest losses in horticultural produce? Write in detail on how to minimize these losses to the minimum level? (20)
- Q.6. How do plant diseases/insects affect the quality and quantity of agricultural produces? Suggest general measures of plant diseases/insects control to improve the quality and quantity of these produces. (20)
- Q.7. Differentiate between the Agricultural Extension System of India and Pakistan. Explain the reasons that why India is a head of Pakistan with special regards to crop production/yield. Suggest measures to minimize the gape. (20)
- Q.8. Write short notes on any four (04) of the following: (20)
- i. Overview of biotic and a biotic stress resistance in plants
 - ii. Concept of bio-fertilizers and bio-pesticides
 - iii. Host resistance, its main types and their merits & demerits
 - iv. Bio-safety concerns and bio-ethics on GM crops
 - v. Improvement of plants via plant cell culture
 - vi. Events occurring in apoplast during plant pathogens interaction
-

KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT SERVICES (BPS-17).

2018

FORESTRY

TIME ALLOWED: 03 HOURS

MAX: MARKS: 100

Note:

Attempt any five questions.

- Q:1 How will you attract capital and intellect from the private sector for conserving natural habitat for the promotion of wildlife in various regions of the country? In case you succeed in your effort, in what specific ways will you like this newly generated capital and intellect to serve the cause of wildlife promotion in the country?
(20)
- Q: 2 How will you estimate the age, height and DBH (Diameter at Breast Height) of individual tree? Explain forest inventory methods used in Pakistan.
(20)
- Q:3 Discuss different Forest types of Pakistan w. r. t flora, fauna, climatic factors and distribution.
(20)
- Q: 4 What do you understand by a National Park? Enlist all the national park of Pakistan with their distribution and reason of declaring as National Park.
(20)
- Q: 5 Under present climatic change scenario in Pakistan, there is an important role of watershed of Kaghan and Naran in KPK. How could we proceed for their management in relation to flood control? Discuss briefly.
(20)
- Q:6 What are the range lands? Explain principles of Range Management and how Government of KPK can proceed to establish and promote commercial ranching in sub alpine regions of Pakistan?
(20)
- Q:7 Define Silviculture. Enlist different Silvicultural system of forest management. Explain under which Silvicultural system the moist temperate forest of Pakistan are managed and why?
(20)
- Q:8 What is Survey? Explain types of survey? Why survey is needed in forestry? Explain the Triangulation method in Chain Survey.
(20)

Khyber Pakhtunkhwa Public Service Commission

Competitive Examination for the Post of Provincial Management Service Officers and A.O.

2018

(SOCIOLOGY)

Time Allowed: 03 Hours

Max Marks: 100

Note: Attempt any five questions. All questions carry equal marks.

- Q.1. Institutional network is considered as mindset of a human society. Elaborate it from the purview of structural and functional domains, with specific focus on contributions of religio-political institutions in bringing members to comply with the societal norms and values. In the case of non-compliance, also discuss the restraining factors and institutional penalties for the non-conformants.
- Q.11. Participant observation is sometimes criticized as a tool of data collection in qualitative research for the reasons of bias involvement of the researcher, insufficient locale of the study and having no consent of the local people. Prove the criticism to be either true or false with strong arguments and intellectual support of social scientists.
- Q.111. Urban life fosters the spirit of individualism among the urbanites which is detrimental to the growth of strong bond of social cohesion among the members. Give a detailed account of socio-psychological impacts of such situation on personality patterns of city dwellers.
- Q.1V. Sociologists have overruled the contentious stance of anthropologists regarding the existence of egalitarian society; rather they hold the view that all societies across the world are stratified. Defend this assertion of sociologists with the help of strong theoretical arguments of prominent sociologists.
- Q.V. Deviant behaviour is a root cause of many social problems emerging in society. Improper social control and growing influence of social media are considered as major stimulants of such social pathology. Discuss it in detail and suggest remedial steps as well.
- Q.V1. Ibn-e- Khaldun, Emile Durkheim and Ferdinand Tonnies have presented theories on the central theme of social solidarity, with diverse titles. Highlight the symmetrical and asymmetrical contents of their theories.
- Q.V11. Personality development of an individual is a reflection of socialization taking place in respective socio-cultural milieu. Explain the statement with the help of relevant theories and also illuminate the role of various agencies in shaping the human personality.
- Q.V111. Discuss ageing as a social problem of Pakistani society in the context of various discomforts to the elderly in their social life. Also highlight the existing available facilities to them and suggest what more are required to facilitate them in everyday life towards mitigating the magnitude of their concerns.

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

JOURNALISM

Time: 03 Hours

Max: Marks: 100

Attempt five Questions, at least, two from each section

Section A

- I. Define communication; elaborate the communication process detailing various components of it. (20)
- II. It is said that, news is sacred but comment is free, describe various functions of Press in the light of this statement (20)
- III. Explain the role of Muslim Press during freedom movement with special focus on the Press in NWFP during Pakistan movement (20)

Section B

- IV. Define News, explain the elements that distinguish News from other forms of Journalistic writings (20)
- V. Describe in detail the role of PRO in any public or private sector organization; also explain the duties and qualities he or she must possess. (20)
- VI. Press in Pakistan today is freer than ever before; critically analyze the evolution of Press Laws in Pakistan. Also explain the Press freedom v/s responsibility concept. (20)
- VII. Critically examine the social and economic impact of advertising on media content in today's capitalist world (20)

KPK, PUBLIC SERVICE COMMISSION
Competitive Examination for the posts of PMS, 2018
PURE MATHEMATICS. PAPER II

Time Allowed: 03 Hours

Max. Marks: 100

Instructions: Attempt FIVE questions in all. Select THREE from section A and TWO from section B.
All questions carry equal marks.

SECTION A

Q1 (a). Find (i) $\lim_{x \rightarrow 2} f(x)$ if $f(x) = \begin{cases} x^2 - 1 & \text{if } x \leq 2 \\ \sqrt{x+7} & \text{if } x > 2 \end{cases}$ (ii) $\lim_{x \rightarrow 0} (\tan x)^{\sin 2x}$

(b). Find 'c' of Lagrange's Mean Value Theorem for the function $f(x) = 2x - x^3$ in the interval $0 \leq x \leq 1$.

Q2 (a). Examine the function $f(x) = 2x^3 - 15x^2 + 36x + 10$ for extreme values.

(b). Evaluate the following by using Gamma and Beta functions.

(i) $\int_0^1 (\ln x)^4 dx$ (ii) $\int_0^4 z^{3/2} (4-z)^{5/2} dz$

Q3 (a). Determine whether the integral $\int_{-1}^1 \frac{dx}{x^2}$ converges.

(b). Find the area bounded by the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$.

Q4 (a). Let (X, d) be a metric space and let A be any subset of X . Then A° is an open set and it is the largest open set contained in A .

(b). Prove that every convergent sequence in a metric space is a Cauchy sequence.

SECTION B

Q5 (a). If $\sin(u + iv) = x + iy$, prove that $(1-x)^2 + y^2 = (\cosh v - \cos u)^2$.

(b). Find the sum up to infinity of the series $1 - \frac{x^2}{2!} \cos 2\theta + \frac{x^4}{4!} \cos 4\theta - \frac{x^6}{6!} \cos 6\theta + \dots$

Q6 (a). Use De Moivre's Theorem to prove that

$$\cos^3 \theta + \sin^3 \theta = \frac{1}{4} (\cos 3\theta + 3\cos \theta - \sin 3\theta + 3\sin \theta)$$

(b). Construct the analytic function $f(z)$ whose real part is $u(x, y) = y^3 - 3x^2y$.

Q7 (a). For the function $(z) = \frac{2z^3+1}{z^2+z}$, find a Taylor series valid in the neighborhood of the point $z = i$.

(b). Discuss the nature of singularities of the following functions and also calculate the residues at pole.

(i) $f(z) = \frac{\sin z}{(z-\pi)^2}$ (ii) $f(z) = \frac{\cos z}{\sin z}$

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KPK, PUBLIC SERVICE COMMISSION
Competitive Examination for the posts of PMS/AS, 2018
Applied Mathematics, Paper-1

Time Allowed: 03 Hours

Max Marks: 100

Instructions: Attempt total FIVE questions, TWO from Section-A and THREE from Section-B.

Section-A

1. (a) Show that $(b \times c) \cdot (c \times a) \times (a \times b) = (a \cdot b \times c)^2$ (10)
(b) Prove the physical interpretation of cross product $a \times b$. (10)
2. (a) If $r = xi + yj + zk$ and a is constant, prove that $\text{div}[a \times \text{grad}(1/r)] = 0$. (10)
(b) Show that $\text{Curl Curl } f = \text{grad div } f - \nabla^2 f$ (10)
3. (a) Forces P, Q act at a point O and their resultant is R . If any transversal cuts the lines of the forces on the points A, B, C respectively, prove that $\frac{P}{OA} + \frac{Q}{OB} = \frac{R}{OC}$ (10)
(b) If forces $l \vec{AB}, m \vec{BC}, n \vec{CD}, p \vec{DA}$ acting along the sides of a quadrilateral are equivalent to a couple, show that either $l = m$ or $ABCD$ is a parallelogram. (10)
4. (a) A body weighing $40lb$ is resting on a rough horizontal plane and can just be moved by a force of $10lb$ weight acting horizontally. Find the coefficient of friction. (10)
(b) Define Principal of virtual work and explain briefly its application with example. (10)

Section-B

5. (a) Obtain Tangential and Normal components of acceleration. (10)
(b) Obtain Radial and Transverse components of velocity. (10)
6. (a) Find the distance travelled and the velocity attained by a particle moving in a straight line, at any time t if it starts from rest at $t = 0$ and is subject to an acceleration $t^2 + \sin t + e^t$. (10)
(b) A particle is projected vertically up wards with a velocity $\sqrt{2gh}$ and another is let fall from a height h at the same time. Find the height of the point where they meet each other. (10)
7. (a) A point describes simple harmonic motion in such a way that its velocity and acceleration at a point P are u and f respectively and the corresponding quantities at another point Q are v and g . Find the distance PQ . (10)
(b) If a point P moves with a velocity v given by $v^2 = n^2(ax^2 + 2bx + c)$, show that P executes a simple harmonic motion. Find the centre, the amplitude and time period of the motion. (10)
8. (a) A particle is moved by a force $F = 20i - 30j + 15k$ along a straight line from the point A to the point B with position vectors $2i + 7j - 3k$ and $5i - 3j - 6k$ respectively. Find the work done. (10)
(b) Show that $F = -kr^3 \mathbf{r}$ is conservative. (10)
9. (a) Explain Apsides and apsidal distances with examples for nearly circular orbits. (10)
(b) Define the Three Laws of Kaplers Law of Planatry motion with at least one mathematical example and Sketch its motion. (10)

COMPUTER SCIENCE**TIME ALLOWED: 3 HOURS****MAXIMUM MARKS: 100**Attempt total **five** questionsAttempt at **least one** question from each section.

Each question carries 20 Marks

SECTION-A

- Q. No 1 (A) What do you mean by Process Control Block? Explain in detail? Marks: 10
(B) Briefly explain five state process model? Marks: 10
- Q. No 2 (A) Differentiate between pre-emptive and non pre-emptive scheduling with examples? Marks: 10
(B) How operating system does segmentation? Explain mapping process? Marks: 10
- Q. No 3 (A) Which layer of OSI model does segmentation? Explain all the functions of that layer? Marks: 10
(B) How would you differentiate between UDP and TCP? Marks: 10

SECTION-B

- Q4) (A) What is two dimensional array? Write a program that finds the sum of two 3 x 3 matrices. Marks: 10
(B) Define Polymorphism? How it is implemented in C++? Marks: 10
- Q5 (A) Write binary search algorithm? Marks: 10
Given a list of data items apply binary search algorithm to find the key item 69?
19 27 32 54 69 73 87 99
(B) How will you search an item in a linked list. Write algorithm? Marks: 10
- Q6 Explain the following software development process models briefly? Marks: 20
1. Waterfall Model 2. Spiral Model 3. Iterative Model 4. Incremental Model

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

SUBJECT: COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT 2018
SERVICE(BPS-17)

PHYSICS PAPER-II

Time allowed: 03 hours

Max. Marks:100

Note: Attempt any FIVE complete questions.

- Q.1. a) Calculate the Electric Field of a uniformly moving electron. (10)
b) Derive Maxwell's Equations which is based on Farady's law of electromagnetic Induction. (5)
c) Write down the expression of \vec{A} and ϕ and give the interpretation of the retarded magnetic vector and scalar potentials, also retarded time. (5)
- Q.2. a) Define the Poynting vector and write expression for it. (5)
b) Calculate the magnetic induction by Ampere's circuital law at point r due to a long wire which carries current I . (5)
c) Calculate the magnetic Induction due to a circular coil. (10)
- Q.3. a) What is the zero-point energy of harmonic oscillator? How is it explained. (12)
b) Construct time independent Shrödinger equation. (8)
- Q.4. a) The Zeeman component of 500nm spectral line are 0.0116nm apart when the magnetic field is 1.00 T, Find the ratio e/m for electron from these data? (6)
b) What is particle exchange operator? What are its eigenvalues? (4)
c) Explain in detail Pauli Exclusion principle. (10)
- Q.5. a) Name different parts of accelerators. (6)
b) By how much the atomic mass of the parent exceeds the atomic mass of a daughter when an electron is emitted during beta decay? (2)
c) Explain theory of Alpha decay in detail. (12)
- Q.6. a) Where do stars get their energy from? (2)
b) What is the difference between fission and spontaneous fission? (4)
c) Are there any quark-antiquark combinations that result in non integral electric charge? (4)
d) What are the similarities among quarks and leptons? (10)
- Q.7. a) What does it mean to say that pn -junction is biased in forward direction? (5)
b) Why is Silicon often preferred to Germanium for making semiconductor devices? (5)
c) A Silicon crystal is doped with phosphorous to concentration of 10^{22} phosphorous atoms per cubic meter. On average how far apart are these atoms. (10)
- Q.8. a) If we increase the temperature of a reversed-biased pn junction, what happens to the current? (4)
b) Would you expect doping to change the resistivity of Silicon by very much? (4)
c) What are transistors? Explain its different types. (12)

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL
MANAGEMENT SERVICES (BPS-17), 2018

GEOLOGY, PAPER-1

TIME ALLOWED: 03 HOURS

MAX: MARKS: 100

NOTE: Attempt any five questions

- Q-1: Write a detailed note on the internal structure of the earth, list the significant lithospheric plates and describe main types of plate boundaries by examples and illustrations?
- Q-2: Describe the main structural features of northern Pakistan, highlight their significance in the context of Himalayan Geology with main reference to the India-Asia collision?
- Q-3: Describe the types of secondary structures and explain their importance in structural geology as well as in petroleum geology?
- Q-4: Describe morphological features, classification evolution and geological distribution of Foraminifera?
- Q-5: What is biostratigraphy? Explain different types of biostratigraphic zones?
- Q-6: Write a detailed note on sedimentary basins of Pakistan and describe their importance in the context of socio-economic development of Pakistan?
- Q-7: Describe the Permian succession of Salt Range Pakistan in detail and highlight its importance in terms of Petroleum geology as well as in terms of paleogeography?
- Q-8: Write a detailed note on metamorphism? Reflect on principle types, zones and facies of metamorphism, illustrate by examples?
-

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KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

GEOLOGY. PAPER-II

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. All questions carry equal marks.

- Q.1 Discuss briefly general processes of formation of mineral deposits.
- Q.2 Briefly discuss granites with reference to Pakistan.
- Q.3 Describe characteristics of coal, fields in Sindh especially Thar Coal Field.
- Q.4 Write a note on oil fields of Sindh Province.
- Q.5 Briefly discuss Energy crises in Pakistan. Suggest suitable measures.
- Q.6 Briefly explain radioactive minerals of Pakistan. (With reference to Siwaliks)
- Q.7 Discuss Kashmir Earthquake, elaborate geological aspects of earthquake.
- Q.8 Write a note on ground water quality, water logging and salinity problems in Pakistan.
- Q.9 Briefly discuss Mapping techniques, Image interpretation and remote sensing in Geology.

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KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

Geography Paper – 1

Time allowed 03 Hours.

Max: Marks 100

Attempt any Five Questions. All question carry equal marks.

1. Discuss the endogenic and exogenic geomorphic process in detail.
2. What are the major erosional and depositional land form produced by river?
3. Discuss the main type of rock along with examples.
4. Discuss the horizontal distribution of temperature and factors affecting the temperature distribution.
5. Describe different layers and composition of Atmosphere.
6. Explain with the help of map the major ocean current of the Indian, Pacific and Atlantic oceans.
7. Define map and its types along with the uses.
8. Write short note on any two of the following.
 - A. Glacial land form.
 - B. Mercator's Projection
 - C. Ocean tides.
 - D. Climate change and coping mechanism

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

Competitive examination for the post of Provisional Management services (BPS-17)

Geography Paper – II

Time allowed 03 Hours.

Max: Marks 100

Attempt any Five Questions. All question carry equal marks.

1. Discuss the concept of determinism and possibilism with examples.
2. Highlight the scope and status of Human Geography with special reference to its application for human development.
3. What is urbanization? Discuss the process with special reference to Pakistan.
4. What are the factors responsible for the uneven distribution of Population with special reference to Pakistan?
5. There is a "paradigm shift from Geo-political to Geo-Economic". In your opinion which one Pakistan should adopt for the country development?
6. Discuss the main economic activities of Pakistan with focus on agriculture in detail.
7. In your opinion how Pakistan can get maximum benefit from the CPEC which is a game changer and a flagship project of "One Belt One Road" (OBOR)
8. Write short note on any two of the following.
 - B. Suggestion for increase of export of Pakistan.
 - B. Poverty alleviation
 - C. Relation with China.
 - D. Population Migration in Pakistan.

21(A)

**Khyber Pakhtunkhwa,
Public Service Commission**

**Competitive Examination for the Posts of Provincial Management
Services (BPS- 17) 2018**

Chemistry Paper 1

Time Allowed: 3 Hours

Max Marks: 100

Note: Attempt any 5 questions. All questions carry equal marks.

- Q1) a)** Derive Schrodinger equation. What is wave function? What is its importance? [12]
b) What is photoelectric effect? How can you explain it with the help of quantum theory of light? [8]
- Q2) a)** What is meant by free energy of a system? How is it related with enthalpy and entropy of the system? [10]
b) State and explain the 1st law of thermodynamics? [10]
- Q3) a)** Write down the applications of soft and hard acid base concept. [10]
b) What are indicators? Discuss acid base and redox indicators. [10]
- Q4) a)** Explain why nitrogen cannot expand its octet but phosphorus can? [6]
b) Write a detailed note on oxyacids of phosphorous. [14]
- Q5) a)** What are transition metals? Discuss their characteristics features. [10]
b) What is crystal field splitting? What does it depend upon? How would you proceed to calculate crystal field stabilization energy of a complex? [10]
- Q6) a)** Explain the lead chamber process for the manufacture of sulfuric acid. Also draw the flow sheet diagram. [10]
b) Describe the composition of the Portland cement. Discuss the wet process for the manufacture of cement. [10]
- Q7) a)** What is water pollution? Discuss the primary sources of water pollution. [10]
b) How is copper extracted from its ores? Discuss the refining process of copper. [10]
- Q8) Write notes on the following:**
- a)** Photochemical smog [10]
b) Allotropes of carbon [10]

KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT
SERVICES (BPS-17)
CHEMISTRY PAPER - II

2018

MAX. MARKS: 100

TIME ALLOWED: 03 HOURS

Note: Attempt any Five questions out of the following:

- Q1. a). What do you understand by Hybridization of Orbitals? What are the rules applied for Hybridization. Discuss the formation of sp , sp^2 and sp^3 hybrid orbitals? (10)
- b). Compare the Valence Bond and Molecular Orbital Theories? (10)
- Q2. a). What is meant by the Order of Reaction? Describe the important methods of determining the Order of Reaction? (10)
- b). Define the term "Velocity Constant of Reaction". Derive the Kinetic equation for the First-Order reaction? What are the units of K in this case? (10)
- Q3. a). What is Catalyst and Catalysis? Give classification of Catalysis? How do Enzymes act as a Catalyst? (12)
- b). What is Catalyst Poisoning? How a Catalyst increases the rate of a chemical reaction? (08)
- Q4. a). Which kind of compounds show "Resonance" phenomenon? What are the general conditions for a compound to be aromatic? (10)
- b). Discuss in detail, How Hydrogen Bonding play a vital role in the formation of biological molecules? (10)
- Q5. a). Discuss the structure and reactivity of Carbonyl group? Give various compounds of carbonyl group? (10)
- b). Give Nucleophilic addition reactions of Aldehydes and Ketones? (10)
- Q6. a). Describe the mechanism of Aromatic Electrophilic Substitution reaction. Explain Friedel-Craft reaction of benzene? (10)
- b). Why Benzene is given a cyclic structure? Discuss structure of Benzene on the basis of MOT? (10)
- Q7. a). Discuss the chemistry of Azo dyes? Write a detail note on Azo dyes and human health? (10)
- b). Give synthetic applications of Arenediazonium Salts? (10)
- Q8. a). What are Lipids? Describe its classification and role in human body? (10)
- b). Discuss fermentation process as an industrial technique for production of Antibiotics? (10)

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PAKHTUNKHWA PUBLIC SERVICE COMMISSION

**Subject: Competitive Examination for the posts of Provincial
Management Service (BPS – 17) 2018**



Paper: Botany – I

Time Allowed: 03 Hours

Max Marks: 100

Note: Attempt any five questions. Each question carries 20 marks.

- Q I. Differentiate between sexual and vegetative reproduction in Fungi with examples. Describe various methods of sexual reproduction met within different groups of Fungi.
- Q II. What are Tracheophytes? Name different groups of Tracheophytes with examples. Describe a generalized life cycle of Pteropsida. Draw a graphic illustration of the life cycle.
- Q III. Compare the characteristic features of Chlorophyta and Cyanophyta. Mention the points where Cyanophyta show similarities and differences with bacteria.
- Q IV. Define Thallus and Spore. Enumerate different types of thalli and asexual spores in Algae.
- Q V. According to one school of thought Bryophytes evolved from the green Thallophytic Algae and according to 2nd school they have been descended from the pteridophytes. Discuss both the theories in detail.
- Q VI. Differentiate between meristematic and permanent tissues. Make a list of different types of permanent tissues. Discuss different types of simple permanent tissues in detail.
- Q VII. Elaborate the term “modern trends in plant taxonomy”. Explain the role chemotaxonomy and numerical taxonomy in classification of plants.
- Q VIII. Explain any two of the following.
- i. Different mechanisms of pollination
 - ii. Rules of botanical nomenclature
 - iii. Characteristic features of Basidiomycota

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

Subject : Competitive Examination for the posts of Provincial Management
Service (BPS-17) 2018

Botany Paper 2

Max Marks: 100

Time Allowed : 03 Hours.

Note : Attempt any five questions

Q 1	Give a detailed account of hormones and their role in agriculture and horticulture	20
Q 2	Describe vernalization and dormancy and their role in seed germination	20
Q 3	Describe the influence of climatic, edaphic and biotic factors on plant growth and adaptation of plant communities	20
Q 4	Explain the concepts of ecosystems and the mechanisms of food chains and trophic levels	20
Q 5	Describe the causes and consequences of water logging and salinity with respect to Pakistan	20
Q 6	Describe mutation and polyploidy. Also give the types and levels of polyploid complexes in plants.	20
Q 7	Describe theories of evolution and no-Darwinism.	20
Q 8	What is bio-chemical nature of proteins and fats? Describe in detail the structural configurations of proteins.	20

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KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

ZOOLOGY(PAPER I)

Maximum Marks: 100

Time Allowed: 3 hours

Note: Attempt Five (05) questions in all selecting THREE questions from Part A and TWO questions from Part B. Draw neat and well labeled diagrams where required.

Q No	Questions	Allocated Marks
PART-A		
1	Describe in detail the parasitic adaptations in different groups of Platyhelminthes.	20
2 a	Discuss the economic importance of Nematodes.	10
b	What is the position of Porifera in animal kingdom?	10
3 a	What are the modifications of foot in Mollusca?	10
b	Describe Water Vascular System in Echinoderms.	10
4	Write a detailed note on Economic Importance of Insects.	20
PART- B		
5	Give a comparative account of excretory system in reptiles, birds and mammals.	20
6	What is migration? Describe this process among birds and fish? Give examples from Pakistan as well.	20
7	What are extra embryonic membranes? Describe their structure and function in vertebrates.	20

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POST OF PROVINCIAL
MANAGEMENT SERVICES (BPS-17) 2018

ZOOLOGY PAPER II

Maximum Marks: 100

Time Allowed: 3 hours

Note: Attempt Five (05) questions in all selecting ONE question from each Part. Draw neat and well labeled diagrams where required.

Q No	Questions	Allocated Marks
PART -A		
1	Describe structure and function of mitochondria.	20
2	Describe the process of protein synthesis in prokaryotic cell.	20
PART -B		
3	Describe digestive system and process of digestion in detail.	20
4	What are hormones and their importance? Describe Pituitary hormones in detail.	20
PART -C		
5	Describe Law of Independent Assortment. Draw checker board to explain it.	20
6	How sex determination takes place in different groups of animals	20
PART -D		
7	Do you believe in theory of evolution? Prove your idea in the light of science and Quran.	20
8	Describe main points of Darwin's theory of Evolution. What is Neo Darwinism?	20
PART -E		
9	What are biogeochemical cycles? What is their importance in ecosystem? Describe Nitrogen Cycle in detail.	20
10	Describe Ecosystem with special emphasis on energy flow mechanism in it	20

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

ISLAMIC HISTORY & CULTURE, PAPER-I

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. All questions carry equal marks.

- Q.1 How did Islam, after its inception, revolutionize the Arabian society?
- Q.2 Enumerate the key characteristics of the personality of Prophet Muhammad (PBUH) that resulted in the success of his mission.
- Q.3 If Islam and the Holy Quran was a relief package for humanity yesterday, what obstructs it today? Enumerate your relief scheme in the light of this study.
- Q.4 Tell us about the importance, procedures adopted and spirit of Islam over the issue of succession of Prophet Muhammad (PBUH).
- Q.5 Discuss in detail extension of Islamic Caliphate under Walid bin Abdul Malik.
- Q.6 Discuss in detail the Evolution of Islamic Law and Jurisprudence?
- Q.7 Tell us about the causes and consequences for the decline of Ottomons.
- Q.8 Write short notes on any two of the following:
- Narrate briefly all the Muslim attempts for the conquest of Syria.
 - Mutazilla.
 - Hazrat Umar bin Abdul Aziz.
 - Abu Muslim Khurassani.

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KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION, PESHAWAR

COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT SERVICE (B-17)

2018

ISLAMIC HISTORY & CULTURE, PAPER-II

Time Allowed: 03 Hours

Max. Marks: 100

Note: Attempt any Five (05) questions, all questions carry equal marks.

- Q 1: Describe the causes of establishment of the Fatimid Caliphate in North Africa.
- Q 2: Do you agree with the view that Ibn Abi Rabi has only a theory of government but no theory of state. Elaborate.
- Q 3: Describe the Muslims' Contribution in Paintings, handicrafts and pottery.
- Q 4: Discuss the economic policies of Islam on western thoughts.
- Q 5: Describe the Muslims achievements in natural science from Baghdad and Iran.
- Q 6: What is the Muslim contribution in medicine history and social science?
- Q 7: What is the difference between Culture and Civilization? Describe the contribution of Muslim civilization towards the betterment of humanity.
- Q 8: What are the causes which ultimately brought the downfall of Muslims in Spain?
-

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POST OF PROVINCIAL MANAGEMENT SERVICES (BPS-17)

2018

HISTORY OF PAKISTAN AND INDIA(PAPER- 1)

TIME ALLOWED: 03 HOURS

MAXIMUM MARKS: 100

NOTE: Any FIVE questions are compulsory to attempt. All questions carry equal marks.

- Q: 1 Aurangzeb Alamgir got widespread popularity for his religious orthodox policies. Give your personal opinion about this statement.
- Q: 2 Discuss in detail the contribution and role of "Noratans" of Akbar the great in the formulation of his religious policy with a particular reference to Din- I- Ilahi".
- Q: 3 Give a detailed account of the services rendered by the prominent Sufi Ulemas during the later Mughal rule.
- Q: 4 Comprehensively discuss the importance of three battles of Pani Pat in the history of Indo Pak Sub-continent.
- Q: 5 The Mughal emperors were the great patrons of Art and literature. Elaborate.
- Q: 6 Some intellectuals have a common point of view that Babury Moque issue is the product of Mughal emperors prejudiced religious policies.
- Q: 7 Describe the "Band of Forty" and its role in the politics of India during the Sultanate period.
- Q: 8 Give a detailed account of the drastic administrative policies of Sher Shah Suri.
-

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KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

HISTORY OF PAKISTAN AND INDIA

PAPER-II

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. All questions carry equal marks.

- Q.1 How the British East India Company emerged as a political force from a trading firm? Examine the development critically?
- Q.2 How successful was Shah Wali Ullah in countering the effects of the decline of Muslim rule in the 18th century?
- Q.3 What were the Montague-Chemsford Reforms of 1919, and why were the Congress and the Muslim League reluctant to accept them?
- Q.4 During the Second World War (1939-1945) negotiations aimed at independent India achieved little. Give reasons why you might agree and disagree with the statement?
- Q.5 Objective Resolution made constitutional process slow or it helped in making the 1st Constitution of Pakistan. Develop your own arguments.
- Q.6 Political parties are responsible for the imposition of Martial Laws in Pakistan. Comment.
- Q.7 Outline the main stages in the establishment of closer relations between Pakistan and other Muslim Nations since 1947.
- Q.8 What were the Quaid-e-Azam's achievements as Governor General of Pakistan?

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

HISTORY OF PAKISTAN AND INDIA

PAPER-II

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. All questions carry equal marks.

- Q.1 How the British East India Company emerged as a political force from a trading firm? Examine the development critically?
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- Q.5 Objective Resolution made constitutional process slow or it helped in making the 1st Constitution of Pakistan. Develop your own arguments.
- Q.6 Political parties are responsible for the imposition of Marshal Laws in Pakistan. Comment.
- Q.7 Outline the main stages in the establishment of closer relations between Pakistan and other Muslim Nations since 1947.
- Q.8 What were the Quaid-e-Azam achievements as Governor General of Pakistan?

KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION

**COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL
MANAGEMENT SERVICES (BPS-17).**

2018

BRITISH HISTORY PAPER-1

Time Allowed: 03 hours

Max. Marks: 100

Note: Attempt any **FIVE** questions. All questions carry equal marks.

Q.1: In your opinion what were the causes and consequences of the Glorious Revolution?

Q.2: Critically evaluate the social, political and economic impacts of Industrial Revolution on the British society?

Q.3: In your assessment what factors brought the downfall of Whig ascendancy?

Q.4: What did the 1832 Reform Act reform and what did it preserve?

Q.5: How did the British respond to Napoleon's designs of European supremacy?

Q.6: How did the British secure its respective geo-strategic interests in the Congress of Vienna 1815?

Q.7: In your evaluation how did the French Revolution affect the British society and political thought?

Q.8: Elaborate upon in detail on the Chartist Movement and its significance in the British History?

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION**COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018****BRITISH HISTORY-II****Time Allowed: 03 HOURS****Max: Marks: 100****NOTE: Attempt any five questions. All questions carry equal marks.**

- Q.1 Elaborate the role of Great Britain in cold war.
- Q.2 Discuss the Post Second World War financial crisis faced by Great Britain. How the British home Government overcome the economic difficulties?
- Q.3 Produce an essay on the foreign policy of Tony Blair's Government.
- Q.4 Compare and contrast the Labour and Conservative parties in terms of their domestic and foreign policies.
- Q.5 What were the major political Developments occurred during the Government of Maragret Thatcher? Discuss in detail.
- Q.6 Write a comprehensive note on the rise of Socialism in England.
- Q.7 Define "Irish Question". Explain the different proposals and steps taken by British Government of the solution of this issue.
- Q.8 Explain Victorian Era, its developments and drastic policies and reforms.

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KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

EUROPEAN HISTORY, PAPER-I

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. All questions carry equal marks.

- Q.1 Examine the part played by economic and political grievances in bringing about the French Revolution.
- Q.2 Examine the part played by (a) Russia, (b) Prussia, in the overthrow of Napoleon.
- Q.3 What was the continental System and in what way did it militate against Napoleon's ultimate success?
- Q.4 Write a critical note on Bismarck's policy of "Blood and Iron".
- Q.5 What were the Colonial policies of European powers during the late 19th and early 20th century?
- Q.6 What do you understand by the term "Eastern Question"? Analyze the main events from 1833 to 1878.
- Q.7 What were the causes of the Franco-German War of 1870? How it made Germany United?
- Q.8 Is it right that Treaty of Versailles sowed the seeds of the World War-II?

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KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

EUROPEAN HISTORY-II

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. All questions carry equal marks.

- Q.1 "The peace settlement of 1919 was the monument of peacemakers' inaptitude and short sightedness". Discuss
- Q.2 Write a detailed note on Russian Revolution (1917) and bring out its causes and results.
- Q.3 What were the causes of failure of the League of Nations?
- Q.4 "It is said that France's hunt for security and England's desire for peace were responsible for the rise of Hitler". Do you agree with this statement?
- Q.5 Review the foreign policy of Britain between two World Wars.
- Q.6 Describe the Foreign Policy of France between 1919-1939.
- Q.7 Analyze the consequences and impact of World War-II.
- Q.8 Discuss the establishment and importance of United Nations Organization.

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KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018
HISTORY OF USA

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. All questions carry equal marks.

- Q.1 What factors led to colonization of North America?
- Q.2 The original inhabitants (also called Red Indians by some quarters) were around Four Million but in modern USA, they are hardly half a Million. Discuss factors that led to their extermination.
- Q.3 Comprehend the issues of American Constitution making. Also discuss its major features.
- Q.4 Frank Waters says, "The whole westward expansion myth is seen as romantic. But it's a joke, a blot on American history". Discuss the economic and social implication of westward movement in the light of the above statement.
- Q.5 How Panama Canal Zone was acquired by USA? Also discuss its political and economic consequences for both sides.
- Q.6 How Marshal Plan helped USA in securing her interests European Continent?
- Q.7 The Iraq War was one of the major blunders of US history. Analyze
- Q.8 Peter Navaroo, an American Economist declared that getting China into the World Trade Organization was the worst political and economic mistake in American history in the last 100 years. Analyze

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POST OF PROVINCIAL MANAGEMENT SERVICES (BPS-17)
2018

Law Paper-I

Attempt five questions in all choosing at least one question from each part. All questions carry equal marks.

Part-A The Code of Civil Procedure 1908

1. Explain the significance of appeal in civil justice system. Write a comparative note on right to appeal, review and revision. (10+10)
2. Define the doctrine of Res-judicata. How it is different from the principle of res-subjudice? Discuss necessary conditions for the application of res-judicata in civil justice. (3+7+10)
3. What is meant by public nuisance? Who is entitled to institute the suit in case of public nuisance? Describe the procedure provided in the code for such suits. (4+4+12)

Part-B The Contract Act 1872

4. Define contract. Explain the difference between an agreement and contract. In which situations the contract is considered as voidable? (4+6+10)
5. Explain damages as remedy in breach of contract. Discuss different kinds of damages with examples. (8+12)
6. Write short notes on the following. (20)
 - a. Pledge
 - b. Void agreements

Part-C Law of Torts

7. Define tort. Distinguish it from contractual liability and offence. Discuss essentials of torts. (3+7+10)
 8. Write short notes on the following. (20)
 - a. Ubi jus ibi remedium
 - b. Principle of Vicarious liability
-

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

CONSTITUTIONAL LAW

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. All questions carry equal marks.

- Q.1 Discuss the main points of objective Resolution of March 1949 and say what is the importance of this Resolution in our Constitutional History?
- Q.2 Discuss the legal status of the "Principles of Policy" as laid down in the Constitution of Pakistan 1973. How can these be distinguished from the Fundamental Rights?
- Q.3 Write on the composition, powers and functions of the House of People (Lok Sabha) of the Government of India.
- Q.4 Discuss the significance of the House of Lords in the political system of Great Britain.
- Q.5 Being a rigid constitution how does an amendment can take place in the U.S Constitution? Explain the process and procedure for it.
- Q.6 Explain in detail the composition/ organization and powers of the Parliament of France according to the French Constitution.
- Q.7 According to the Constitution, what are the Basic Rights, Freedoms, and Duties of the Citizens of the U.S.S.R.?
- Q.8 Write a comprehensive essay on the importance of conventions in British System.

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

MERCANTILE LAW

Time Allowed: 3 Hrs

Marks: 100

Attempt any five questions. All carry equal marks.

1. Define contract. Discuss the various kind of contract.
2. Discuss the law relating to communication of offer, acceptance and revocations.
3. Define and distinguish between 'contracts of sale' and an agreement to sell.
4. A transaction entered in to by a minor is legal, if not, why?
5. Define an agency? What are the different kinds of agents appointed under the law & agency?
6. Explain clearly what is meant by negotiation state the difference between negotiation and assignment.
7. What is a contract of guarantee & what are its special features?
8. Write notes on the following:
 - i. Void agreements
 - ii. Offer
 - iii. Consideration

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

Muslim Law and Jurisprudence

Time Allowed: 3 Hrs

Marks: 100

Attempt any five questions.

1. Define legal capacity and differentiate Receptive capacity from active capacity.
2. Define ownership. What are different kinds of ownership?
3. Define Ijma. What are the modes of constitution of Ijma and when it is completed?
4. Define will explain the rule in general relating to "will" under Muslim law?
5. How marriage is contract at under in Muslim law? Explain the prohibited degree of relationship for inter-marriage.
6. Briefly give the grounds of repudiation of marriage under the Dissolution of Muslim Marriage Act 1935.
7. Define gift, when a gift can be revoked.
8. Write short notes on the following:
 - i. Iddat
 - ii. Khulla
 - iii. Death illness gift

KPK, PUBLIC SERVICE COMMISSION

Competitive Examination for the Posts of PMS, 2018

INTERNATIONAL LAW

TIME ALLOWED: 3 HOURS

MAX. MARKS: 100

Note: Attempt any five questions. All questions carry equal marks.

1. Define International Law and critically appraise the opinion of the jurists that International Law is not proper law like municipal laws.
2. Discuss the formation, jurisdiction and role of International Court of Justice as a source of International Law.
3. Critically analyze the Composition and Functions of General Assembly, specially its role in maintenance of International Peace and Security in recent cases of International conflict.
4. Define Continental Shelf and discuss rights and duties of coastal states over Continental Shelf.
5. Discuss the Origin, development and present position of Exclusive Economic Zone.
6. Define POW's (Prisoners of Wars) under the International Law. How does International Law deal with POW's (Prisoners of Wars)? Support your answer with examples.
7. Explain provisions relating to refugee and asylum under the International Law. How far this subject is more occupied by Human Rights Conventions?
8. "Are diplomatic agents absolutely immured from the criminal jurisdictions of the receiving state" Discuss in detail by giving examples from case law.

International Relations

Time allowed: 3 Hours

Max: Marks: 100

Note i. Attempt five questions in all. All questions carry equal marks.

ii. Extra attempt will not be considered.

iii. Candidate must draw straight line at the end of each question.

Question I. Critically analyze the Josephs Nye's concept of "Soft Power" in International Relations.

Question II. "Nationalism is neither inherently good nor bad, it is only a concept that can be used to achieve good or evil ends". Elucidate.

Question III. Balance of power is a state of stability between the competing forces, it is an equilibrium among states or alliances to prevent any other entity to becoming too strong. In light of this statement elaborate that how equilibrium was maintained by Great Powers during cold war era?

Question IV. The direct cause of World War I was the assassination of "*Archduke Franz Ferdinand*". However historians feel that a number of factors contributed to the rivalry between Great powers that led to war on such a wide scale. Comment please.

Question V. Discuss the emergence of ISIS and its impact on National, regional and international peace and security.

Question VI. There may be possible trade war between USA and China that would rattle certain American business and force consumer to pay more for products. Discuss the term trade war and elaborate that why Trump targeting China?

Question VII. There are two school of thoughts regarding the conjecture of globalization. First of the view that it is blessing and a tool for prosperity, other of the view that it is a tool of frustration. Please elaborate.

Question VIII. Highlight the provisions of Geneva Convention on Prisoners of War.

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KPK, PUBLIC SERVICE COMMISSION

Competitive Examination for the Posts of PMS, 2018

PHILOSOPHY, PAPER-1

Time Allowed: 03 Hours

Max: Marks: 100

Attempt any five questions and each questions carry equal marks.

1. What is informal fallacy? Explain fallacies of Ambiguity and Presumption with at least one example each.
2. Critically examine five criteria commonly used in judging the worth of scientific hypothesis.
3. Enumerate different types of 'definition' and explain them with examples.
4. What is the difference between proposition and sentence? Discuss its various kinds with examples.
5. Differentiate between Deduction and Induction. How can inductive reasoning be justified.
6. Elaborate Ibn-Tahmiya's criticism on Aristotelian logic.
7. Discuss Traditional square of opposition and various forms of immediate inferences.
8. State and thoroughly examine Mill's doctrine of Plurality of Causes.

KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT SERVICES, 2018 (BPS 17)

PHILOSOPHY, PAPER- II

TIME ALLOWED: 03 HOURS

MAX. MARKS: 100

Attempt any five questions. All questions carry equal marks.

1. Critically examine Logical Positivist's Principle of Verification.
2. What is Pragmatism? Explain its central theme.
3. State and critically evaluate the essentials of Idealism.
4. Explain Iqbal's concept of Human Ego.
5. Critically evaluate the basic philosophy of Mutazilites.
6. Discuss the significance of Sir Syed Ahmad Khan in the awakening of the Muslims of the Sub-continent.
7. Discuss the basic themes in Al Farabi's Philosophy.
8. Critically evaluate Ibn-e-Khaldun Philosophy of History.

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

PSYCHOLOGY PAPER-I

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt only five questions. All questions carry equal marks, i.e. 20 marks for each question.

- Q1.** Define the concept of Psychology, its aims, objectives and its application in various fields.
- Q2.** What is Perception, Perceptual organization, and Perceptual grouping?
- Q3.** Define learning by supporting with the concept of classical conditioning.
- Q4.** Elaborate the concept of Motivation and why basic motives are essential for survival?
- Q5.** What is meant by personality, and development of personality according to Sigmund Freud?
- Q6.** Define Socialization along with various agents of socialization.
- Q7.** What does a group mean, and how groups are formed? Also explain group dynamics.

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

PSYCHOLOGY PAPER-II

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions.

- Q1. What do you mean by growth, development and maturation? Describe the importance of development psychology. (20)
- Q2. Identify several factors that can be harmful for the prenatal development. (20)
- Q3. Discuss behavior therapy in detail. (20)
- Q4. Define intelligence. How intelligence can be assessed? Discuss (20)
- Q5. What are the causes of drug addiction? (20)
- Q6. Define the concept of abnormality. Discuss psychosomatic disorder. (20)
- Q7. Discuss the relationship between job satisfaction and productivity. Identify major strategies used in their improvement. (20)
- Q8. Write short notes on any two of the following: (20)
- a) Mental retardation.
 - b) Group therapies.
 - c) Methods of studying infant's behavior.
 - d) Juvenile delinquency.

KPK PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR PROVINCIAL MANAGEMENT SERVICE, 2018

ENGLISH LITERATURE, PAPER I

TIME ALLOWED: 3 HOURS

MARKS: 100

Note: i. Attempt ONLY 5 questions.

ii. Marks will be deducted for incorrect use of the English language. Extra attempt of any question will not be considered.

iii. Candidate must draw two straight lines (=====) end of each answer to separate the questions.

Ques No.		Marks
1.	How far, in your opinion, is the poetry of Blake influenced by occult traditions in European thought ?	20
2.	Poetry for Wordsworth was the record of a state of mind and the value of poetry for him lay in the value of the state of mind. Comment.	20
3.	What was Ruskin's attitude towards Victorian society? How far do you agree that the Gothic gave free play to the individual workman?	20
4.	Give examples from the poems of Tennyson of how he uses natural images to achieve a dream landscape.	20
5.	Give your opinion of the character of Angel Clare in Hardy's novel Tess of the D'Urbervilles.	20
6.	The vividness of the personality caught unawares in Browning's dramatic monologues is what makes them so effective. Explain this statement using examples from his monologues.	20
7.	Write notes on any two of the following: Symbolism in Oscar Wilde's The Picture of Dorian Gray Hardy as a poet Sentimentality in the novels of Dickens The vein of grimness in Shelley's poetry	

K P K, PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POST OF PMS, 2016

ENGLISH LITERATURE, PAPER -II

TIME ALLOWED: 03 HOURS

MAX. MARKS: 100

NOTE: Please Attempt any **FIVE** questions. All questions carry equal marks.

1. Santiago is considered by many readers to be a tragic hero, in that his great strength – his pride- leads to his eventual downfall. Discuss the role of pride in 'Santiago's plight.
 2. *Hamlet* is the tragedy of human life. Discuss.
 3. From your reading of *Gulliver's Travels* what impression have you formed of Swift's attitude towards mankind? Would you describe him as a misanthrope?
 4. The narrator is constantly in flux in *The Waste Land*. Outline the various roles and personas the narrator assumes, and consider the significance of each.
 5. Jane Austen has used Irony as a part of her narrative technique. Illustrate this from her novel *Pride and Prejudice*.
 6. Could *Pygmalion* be set in the modern day at a time when there are, generally, more opportunities for women?
 7. Is *The Second Coming* a "visionary poem"? If yes, describe what Yeats' vision is?
 8. Samuel Beckett subtitled his play *Waiting for Godot* as a "tragicomedy". How far is it appropriate to describe the play thus?
-

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS(BPS-17) 2018

ARABIC PAPER-I

TIME ALLOWED: 03 HOURS

MAX:MARKS: 100

NOTE: Attempt any five questions in all. Question No.8 is compulsory

- Q.No.1:** Explain the meaning of Al-Jahiliyah and give a detailed account of pre-Islamic literature.
- Q.No.2:** Define the term An-Naqd (النقد) and also explain it in the light of Arabic literature.
- Q.No.3:** "Quran is miracle", Comment.
- Q.No.4:** Write a comprehensive note on contribution of Al-Jahiz in Arabic literature.
- Q.No.5:** Elaborate the characteristics of poetry in Ummayyad Era.
- Q.No.6:** Write short note on any two:
- i) Taha Hussain ii) Labid-bin-Rabiah
- iii) Aswaaq iv) Adb-al-Mahjar
- Q.No.7:** What were salient features of Islamic poetry in the era of Holy Prophet (PBUH) and rightly guided Caliphs?

اسئوال الثامن:- أجب عن الأسئلة باللغة العربية.

1. ما المراد بالشاعر المخضرمي؟
2. ما هي مصادر الشعر الجاهلي؟ اذكر ثلاثة منهم.
3. عرف أدب المهجر بالأجاز.
4. كم عهداً للأدب العربي في تاريخه؟

STATISTICS

Time: 3 hours

Marks: 100

Note: Attempt any five questions, all questions carry equal marks.

Q.1(a) Three married couple have bought six seats in a row for concert. In how many ways can they be seated?

- (i) if all the women sit together (ii) if all the men refuse to sit together.

(b) A person has purchased 10 out of 1000 tickets sold in a certain raffle. To determine the five prize winners, 5 tickets are to be drawn at random and without replacement. Compute the probability that this person will win no prize.

(c) A class in advance physics is comprised on 10 juniors, 30 seniors and 10 graduate students. The final grades showed that 3 of the juniors 10 of the seniors and 5 of the graduate students received an A for the course. If a student is chosen at random from this class and is found to have earned an A, what is the probability that the student is a junior student?

(4+6+10)

Q.2(a) Let $f(x_1, x_2) = 6x_2$, $0 < x_2 < x_1 < 1$, zero elsewhere, be the joint p.d.f. of the random variables X_1 and X_2 . Find the conditional mean of X_2 given that X_1 .

(b) A manufacturer of small parts sends the parts in boxes of 20 parts to his customers. Assume that each part is either defective or not defective. The probability of an individual part is defective is 0.05. Assume that 10 boxes were produced, what is the probability that there is no defective box in 10 boxes?

(12+8)

Q.3(a) On an examination the average grade was 74 and the standard deviation was 7. If 12% of the class are given A's and the grades are curved to follow a normal distribution, what is the highest B?

(b) A production supervisor finds that employees, on the average complete a certain task in 10 minutes. The times required to complete the task approximately normally distributed with the standard deviation of 3 minutes. Find

- i) Percentage of employees requiring more than 5 minutes to complete the task.
ii) The probability that an employee who has just been assigned the task will complete it within 3 minutes.

(c) Number of persons entering a utility store can be assumed to follow a certain distribution. Over a long period of time it has been established that the number of customers that enter the store in an hour is 60 on the average. Find the probability that in a given two-minute interval no customer will enter the store.

(6+8+6)

Q.4(a) A taxi company is trying to decide whether the use of radial tires instead of regular belted tires improves fuel economy. Nine cars were equipped with radial tires and driven over a prescribed test course. Without changing drivers, the same cars were then equipped with regular belted tires and driven once again over the test course. The gasoline consumption, in kilometers per liter, was recorded as follows:

Car	Kilometers per Liter	
	Radial Tires	Belted Tires
1	4.2	4.1
2	4.7	4.9
3	6.6	6.2
4	7.0	6.9
5	6.7	6.8
6	4.5	4.4
7	5.7	5.7
8	6.0	5.8
9	7.4	6.9

At the 0.025 level of significance, can we conclude that cars equipped with radial tires give better fuel economy than those equipped with belted tires? Assume the populations to be normally distributed.

- (b) The quality control department of a food processing firm claims that the average weight per package of a certain food is at least 25 ounces. Past experience indicates that the standard deviation of weight is 0.3 ounce. A random sample of 144 packages is obtained and the sample mean weight is 24 ounces. Test the claim at $\alpha=0.05$. Also find p-value of the test.

(c) Write down short notes on the following:

(i) Analysis of Variance

(ii) p-value

(iii) Systematic Sampling

(6+6+8)

Q.5(a) The following data represent the running times of films produced by two different motion-picture companies:

	Time (minutes)						
Company 1	102	86	98	109	92		
Company 2	81	165	97	134	92	87	114

Test the hypothesis that the average running time of films produced by company 2 exceeds the average running time of films produced by company 1 by 10 minutes. Use a 0.01 level of significance and assume the distributions of times to be approximately normal. Note: first test the equality of variances of time of films.

- (b) A geneticist is interested in the proportion of male and females in a population that have a certain minor blood disorder. In a random sample of 100 males, 31 are found to be afflicted, whereas only 24 of 100 females tested appear to have the disorder. Can we conclude at the 0.01 level of significance that the proportion of men in the population afflicted with this blood disorder is significantly greater than the proportion of women afflicted?

(12+8)

Q.6(a) Explain the terms "Correlation" and describe the properties of the coefficient of correlation. Also define the coefficient of determination.

- (b) A study was made by a retail merchant to determine the relation between weekly advertising expenditures (X\$) and sales (Y\$). The following data were recorded:

X:	40	20	25	20	30	50	40	20
Y:	385	400	395	365	475	440	490	420

i) Plot a scatter diagram.

ii) Find the coefficient of correlation between X and Y and interpret the result.

iii) Test that there is no relationship between X and Y.

(6+14)

Q.7(a) Define "Sampling" and discuss the aims of sampling. Also describe the advantages and disadvantages of sampling.

- (b) The following table (population) gives the ages (in years) of the five children:

Children:	A	B	C	D	E
Ages (X):	3	5	8	10	11

(i) Calculate the population mean of ages: μ .

(ii) Draw all possible samples of size '3' without replacement.

(iii) Compute the means of the samples (drawn in part-ii) and verify that $\mu = \mu_x$

where μ_x is the mean of the sampling distribution of sample means.

(iv) Find σ_x^2 = variance of the sampling distribution of sample means.

(c) What is Statistical Inference? Explain it with the examples from the field of industry.

(5+10+5)

**COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL
MANAGEMENT SERVICES (BPS-17) 2018**

Accountancy and Auditing Paper-I

Time Allowed: 03 Hours

Max. Marks: 100

Note: Attempt any **FIVE** questions.

1. Below is given the Trial Balance of Ghosh and Guha Co. as on 31st March, 1998. The partners share profit as Ghosh 2/3; and Guha 1/3rd upto 50% of the distributable profit to the company and the balance equally:

Debit Balances	Rs	Credit Balances	Rs
Freehold premises	1,50,000	Capital Account	
Plant and Machinery	45,000	Ghosh	50,000
Wages	20,000	Guha	30,000
Opening stock:		Sundry creditors	25,000
Finished goods	40,000	Sales (net)	3,25,000
Raw materials	20,000	Discount	2,500
Work-in-progress	18,000	Bad debts provision	1,500
Sundry debtors	50,000	Commission	10,000
Carriage inwards	1,500	Guha Loan A/c	30,000
Carriage outwards	900		
Factory expenses	7,500		
Royalties	1,500		
Purchases of raw materials (net)	75,000		
Factory rent & taxes	6,500		
Discount	2,900		
Office rent	4,000		
Insurance	2,000		
Bad debts	1,500		
Office expenses	7,500		
Salaries of works manager	12,000		
Cash at bank	8,200		
	4,74,000		4,74,000

The following additional information is to be taken into consideration:

- Closing Stock: Finished goods Rs.50,000; Raw materials Rs.30,000; Work-in-process Rs.25,000.
- Outstanding liabilities to be provided for wages Rs.5,000; Office salaries Rs.6,000; and Office rent Rs.2,000.
- Bad debts provision to be adjusted to 2.5% on sundry debtors, Insurance premium paid in advance Rs.500.
- Depreciate freehold premises by 2.5% and plant and machinery by 5%
- Partnership salary to be allowed to Ghosh Rs.6,000 and Guha Rs.3,000. The Loan Account of Guha was raised in the books before the commencement of the year.

Required:

You are required to prepare the Trading and Profit and Loss Account for the year ended 31st march 1998 and the Balance Sheet at that date. (20 Marks)

2. Arun and Anand were friends and in need of funds. On 1.1.1993 Arun drew a bill for Rs 2,00,000 for 3 months on Anand. On 4.1.1993 Arun got the bill discounted at 10% p.a. and remitted half of the proceeds to Anand. On the due date, Anand could not meet the bill, instead, Arun accepted Anand's bill for Rs 1,20,000 on 4.4.1993 for two months. This bill was discounted by Anand at 12% p.a. Out of this, Rs 19,600 was paid to Arun after deducting Rs 400 discounting charges. Due to financial crisis, Arun became insolvent and the bill drawn on him was dishonoured and his estate paid 50%. Days of grace for discounting purposes may be ignored.

Required:

Give Journal Entries in the books of Arun and prepare Anand's Account in Arun's books and Arun's Account in the books of Anand. (20 Marks)

3. Gavaskar of Bombay sent 100 TV sets to Kapil of Chandigarh on consignment basis. The cost price of each set is Rs 5,000. Gavaskar paid Rs 100 for cartage, Rs 1,500 for railway freight and Rs 400 for insurance premium.

He drew a bill, payable after two months for Rs 50,000, which was accepted by Kapil, by way of security against the consignment. He then discounted the bill for Rs 49,900.

Kapil paid Rs 600 as godown rent and Rs 400 as sundry expenses. He sold 90 sets @ Rs 5,400 per set. But he could not realize the sale proceeds of 5 sets from the customers. He was entitled to receive 4% ordinary commission and 1% del credere commission. The net amount due from Kapil was received in time.

Required:

Prepare the consignment Account, Kapil Account and Advance Against Consignment Account in the books of Gavaskar. (20 Marks)

4. The following is the Receipts and Payments Account of a club for the year ended 31.12.1997.

Receipts	Rs	Payments	Rs
To Balance b/d	800	By Salaries	300
To Subscriptions:		By Stationery	300
1996	50	By Rates	300
1997	1,000	By Telephone Charges	100
1998	200	By Investments on 4% Govt. securities	
To Admission Fees	400	(Purchased on 30 th June, 1997)	1,000
To Dividends on Investments	200	By Sundry Expenses	150
		By Balance c/d	500
	2,650		2,650

The following additional information is given below:

- (1) There are 600 members paying annual subscriptions of Rs 2 per head, Rs 90 being in arrear for 1996 at the beginning of 1997.
- (2) Stock of stationery at 31st December, 1996 was Rs 200, at 31st December, 1997 Rs 100.
- (3) The rates were paid for fifteen months upto 31st March, 1998.
- (4) Sundry expenses outstanding at 31st December, 1996 was Rs 50.
- (5) The telephone charges for three months is outstanding; the amount accrued being Rs 40.
- (6) At 31st December, 1996 the building stood in the books at Rs 10,000 and it is required to write-off depreciation at 5% p.a.
- (7) At 31st December, 1996 Investments were Rs 4,000.

Required:

You are required to prepare an Income and Expenditure Account for the year ended 31st December, 1997 and a Balance Sheet as at that date. (20 Marks)

5. A second-hand machine was purchased on 1.1.1991 for Rs 4,00,000. Overhauling and installation expenses for the same machine amounted to Rs 1,00,000. Another machine was purchased for Rs 2,00,000 on 1.7.1991. On 1.7.1993, the machine installed on 1.1.1991 was sold for Rs 2,50,000. Dismantling charges for the machine sold on 1.7.1993 were Rs 10,000. On the same date, another machine was purchased for Rs 8,00,000 and was commissioned on 30.9.1993. The company has adopted the calendar year as its financial year. Under the existing practice, the company provides depreciation at 10% p.a. on the original cost. In 1994, it has been decided that depreciation will be charged on the diminishing balance method @ 15% p.a. The change is not to be made with retrospective effect.

Required:

Show Plant Account from 1991 to 1995. Also show Plant Disposal Account. (20 Marks)

6. X, Y and Z are partners, managing the business at Madras, Bangalore and Ooty branches respectively. The terms of agreement are:
1. A sum of Rs 600 p.m. to be charged against the branch profits as salary to the managing partner.
 2. The profits and losses, after charge of salary, are to be shared in the following manner:
 - (a) The managing partner of each branch has to be paid 50% of the additional profits in excess of 20% return on average capital employed at the branch; and
 - (b) The balance of the profits to be pooled for division in the ratio 4:3:3.
 3. Interest on capital to be charged @ 8% p.a. and on Current Account (Including overdrawals) @ 6% p.a. – both on the opening balances.

The following information made available for the year 1997:

- (a) Drawings in addition to salary from the respective branches: X – Rs 15,000; Y – Nil; Z – Rs 22,000.
- (b) Balance on Capital and Current Accounts at the beginning of the year were:

Next Page →

یادگیرنه: اولنۍ سوال حل کول ضروری دی. نورونه دڅلورو سوالونو جوابونه ورکړی.

په صحیح جواب (✓) او په غلط (X) اوښکوی.

I

- (۱) هلاکۍ او دستارنامه دواړه د خوشحال خان خټک کتابونه دي / نه دي.
- (۲) په تالیف او تصنیف کې فرق شته / نیشته.
- (۳) داؤلس د خوښې شاعر چې څه نا څه کلام یې هم ورته یاد وی، څه خوشحال بابا / سیر حمزه شیرازی / رحمان بابا د.
- (۴) د عبدالرحمان بابا چې د شاعري د ټولونه شوخ رنگ دیني / صوفیانه / اخلاقي د.
- (۵) خیرالبیان د بایزید بسطامی او مخزن اسلام د بایزید انصاری کتاب د.
- (۶) خودکشی د سید رسول رسا ناول د / درامه د.
- (۷) افسانه او ناول د تخلیقي ادب ټوکی دي / نه دي.
- (۸) غزل هم داؤلس ادب یوصف د / نه د / بالکل نه د.
- (۹) د پیر حسرت افضل رضا او د اکثر اعظم اذبی پیر ټنگو میدان تاریخ نگاری / درامه نگاری د.
- (۱۰) "پشتون کون؟" د پریشان خټک د قصو کتاب د. - او ټکی په د قلندر مهند سوانخ مېری د.
- (۱۱) د فاتحې نه بغیر که په بل څه لمونځ کېدل نو ما به په کې د عبدالرحمان بابا چې کلام ویکل پیر بابا / سوتا بابا چې عبداللیم اثر.
- (۱۲) حبیب الرحمن د پریشان خټک / قلندر مهند / سمر یوسف زې پیل نوم د.
- (۱۳) هواره او مثل یو ټیټ د / یو ټیټ نه د / کله کله یو ټیټ وي.
- (۱۴) کلاسیکي ادب جدید / پخوانی / معیار کا ادب ته وایی.
- (۱۵) هایکو هم د آزاد نظم یو قسم د / نه د.
- (۱۶) د پښتو افسانې، ناول او ډرامې اکثر قیصې غیر حقیقي / ریښتینې وی ځکه د معاش په صحیح تصویر کېلې شي / نه شي.
- (۱۷) عواصی ادبیات د عوامو وی او عالی ادبیات د اعلیٰ خلکو د پلوه وی.
- (۱۸) ساندې او ساندې یو ټیټ وي / نه وي / کله کله وي.
- (۱۹) "مده و میتر اسلام" حالی ترهه کړې د / لیکلې د.
- (۲۰) کتاب "زک" د رضا زمانه "مکمل باقا الفت" عبدالحي الحق خلیق / ریښتین لیکلې د.

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II. د انگریزي دغه عبارت او متلونونه درې پښتو ته واړوی.

(A) Haroon ascended the throne at the age of nearly twenty five without any opposition. With his accession the Abbasid Empire entered into another brilliant period of Saracenic rule in Asia. He was not only celebrated in the East, but in the West as well. The Arabian Nights period of the Abbasids began with him. The stories of "The Thousand and one Nights", which have made the name of Haroon so famous throughout the ages have lent a special charm to this reign.

(B) Always live with in your income.

- (۱) A great man and a great river are often ill neighbours.
- (۲) That city can't prosper where ox is sold for less than fish.

(4) There is a great difference between man a man.

(5) A good horse should be seldom spurred.

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III

دغه لاندې پښتو عبارت او متلونونه صرف درې انگريزي ته وړو.

(الف) ښاغلی حیات محمد خان خیل کتاب حیات افغاني کې لیکي چې دهغه دوو باندې د کنډرونو او باتور نوي لوهار د دکان اثار موجود دي. او دهغه گڼې ذکر هم کوي چې درخاني به پرې خرڅه کوله. که یو خوا دغه خوالې رلینښیا او گڼلې شي نو بل طرف ته په بڼه یاز دره کې هغه اثار هم شته چې دهغه علاقه خلق پکې کوته کوي، او دام خان درخاني د معاشقې داستان سره یې دهغوي په خیال تړون پاتې شوی دی.

(ب) پروڼ چولا شوې اونن چې پتوي -

(۳) پرتوک چې واغوستو او تحصیل دارنه راغی -

(۴) اصل له خطا نښته وکم اصل له وفانښته -

(۵) پاونده چې نوي نه کول نو زړه به یې چاڅه یادولې -

(۶) چې په زړه ورسره سم نه یې (جانه دهغرت څنگه مه کېښه زړه ور

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IV

د خوشحال خان خټک شاعري دهغه د تجربو آئینه ده - بحث پرې اوکړئ.

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V

د عبدالرحمن بابا جي کلام یعنې د اولسمې صدۍ عیسوي شاعري په دې یو ویشتمه

صدۍ کې زموږ څه رهنمائي کولای شي ؟

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VI

فولکلوري ادب د اولس د صبا بیک هنداره گڼلې شي - د یو متل په رڼا کې

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پرې بحث اوکړئ -

VII

پښتو ته د ناول په راتگ او په معیار یې د خپلې مطالعې مخ پر

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وړاندې کړئ -

VIII

د چاريتي يا نظم په يو شاعر مضمون وليکلئ -

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KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

PAPER PHYSICS-I

Time Allowed: 03 Hours

Max. Marks: 100

NOTE: Attempt any FIVE complete questions.

- Q.1 (a) Show that $\vec{A} \cdot \vec{B} = A_x B_x + A_y B_y + A_z B_z$ and
 $\vec{A} \times \vec{B} = (A_y B_z - A_z B_y)\mathbf{i} - (A_x B_z - A_z B_x)\mathbf{j} - (A_x B_y - A_y B_x)\mathbf{k}$ (10)
- (b) Two vectors A and B have components in arbitrary units, $A_x = 3.1$, $A_y = 1.5$
 $B_x = 0.50$, $B_y = 4.5$. Find the angle between A and B. (6)
- (c) Do the Commutative and Associative laws apply to vector subtractions? (4)
- Q.2 (a) A net unbalanced force applied to a particle will change its state of motion by accelerating from initial velocity v_i to final velocity v_f . What is the effect of the work done on the particle by this unbalanced force? (10)
- (b) A running man has half the kinetic energy of a boy who has half the mass of the man. The man speeds up by 1.0 m/s and then has the same kinetic energy as the boy has. What were the original speeds of the man and the boy? (7)
- (c) Does kinetic energy depend on the frame of reference of the observer? Does its value depend upon the direction of the moving body? Can it be negative? (3)
- Q3. (a) What is Einstein special theory of relativity? On the basis of its postulates, explain time dilation and length contraction phenomenon. (4, 4, 4)
- (b) A rod of length L starts moving with certain velocity such that its length becomes half of the original length. Calculate the velocity of the rod. (6)
- (c) There is two observers in two different frames of reference. Each of them carry identical bat held along the direction of their relative motion. Each one measures, other bat is shorter. Explain the reason for such paradox. (2)
- Q4. (a) What do you understand by Simple Harmonic Motion? Plot the force and potential energy of the simple harmonic oscillator w.r.t displacement. (10)
- (b) A meter stick swinging from one end oscillates with a frequency f_0 . What would be the frequency in terms of f_0 , if the bottom third of the stick is cut off. (8)

- (c) What changes can be you make in a Harmonic Oscillator that would double the speed of oscillating object? (2)
- Q5. (a) Explain construction and working of Michelson's interferometer. How fringe shift is calculated? (10)
- (b) Find the slit separation of a double slit arrangement that will produce bright interference fringes 1° apart in angular separation. Take wavelength equal to 590nm. (6)
- (c) Is Coherence important in reflection and refraction? (4)
- Q6. (a) An unpolarized light falls on two polarizing sheets so oriented that no light is transmitted. If a third polarizing sheet is placed between them, light is transmitted. Calculate the intensity of the transmitted light. (10)
- (b) At what angle of incidence light reflected from water will be completely polarized? Does this angle depend on wave length of light? (8)
- (c) Can sound waves be polarized? (2)
- Q7. (a) The speed of sound in different gases at the same temperature depends on the molar mass of the gas. Show that, at constant temperature, $\frac{V_1}{V_2} = \sqrt{\frac{M_1}{M_2}}$ where V_1 is the speed of sound in gas of molar mass M_1 and V_2 is the speed of sound in gas of molar mass M_2 . (10)
- (b) At what temperature is the average translational kinetic energy of a molecule in an ideal gas equals to 10 eV. (6)
- (c) If hot air rises, why it is cooler at the top of the mountain than near sea level. (4)
- Q8. (a) Give two important statements of second law of thermodynamics and show that they are equal. (10)
- (b) A heat engine absorbs 52.4 kJ of heat and exhausts 36.2 kJ of heat in each cycle. Calculate efficiency and work done by engine per cycle. (6)
- (c) Are there natural processes which are reversible? (4)
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KHYBER-PAKHTUNKHWA, PUBLIC SERVICE COMMISSION, PESHAWAR
COMPETITIVE EXAMINATION FOR THE POSTS OF PMS

2018

Accountancy and Auditing Paper-II

Time Allowed: 03 Hours

Max. Marks: 100

Note: Attempt any FIVE questions.

Q.No.1. The Pak China Company Trial Balance December 31, 2015

	Dr.	Cr.
Cash	Rs. 62,200	
Notes Receivable	4,600	
Accounts Receivable	20,000	
Materials Inventory Jan:1	15,000	
Work in Process - Materials Jan:1	7,000	
Work in Process - Labour Jan: 1	6,000	
Work in Process - Factory Overhead Jan:1.	6,000	
Finished Goods Inventory Jan: 1	63,000	
Prepaid Insurance	500	
Prepaid Taxes	400	
Buildings	1,00,000	
Allowance for Depreciation on Building		Rs: 10,000
Plant and Equipment	1,60,000	
Allowance for depreciation on Plant & Equipment		30,000
Office Furniture and Fixtures	3,000.	
Allowance for Depreciation on office Furniture & Fixture		450
Accounts Payable		40,500
Interest on Mortgage Payable		1,000
Wages Payable		4,550
Mortgage on Plant & Machinery		1,00,000
Capital		1,50,000
Retained Earnings		50,000
Sales		2,80,000
Sales Returns	10,500	
Rebates & Allowances on Sales	5,400	
Materials Purchases	70,000	
Payroll:Direct	60,000	
Indirect	10,100	
Small Tools Expense	2,300	
Indirect Materials Purchased & Used	12,200	
Miscellaneous Factory Overhead Costs	14,500	
Freight Out	10,200	
Sales Salaries & Commission	5,800	
Miscellaneous selling Costs	7,650	
Office Salaries	4,150	
Miscellaneous Office Costs	5,200	
Discounts on Sales	4,500	
Interest Allowed	6,200	
Interest Received		9,900
	<u>Rs: 6,76,400</u>	<u>Rs:6,76,400</u>

The following supplementary information is available:

Inventories as of December 31 at cost

Materials	Rs: 14,700
Work in Process - Materials	4,500
Work in Process - Labour	4,000
Work in Process - Overhead	4,000
Finished Goods	62,600

Allowance for Depreciation:

5% on Building (80% to factory, 10% to administration and 10% to sales) 10% on Machinery and 15% on office Furniture and Fixture.

Required: Prepare Statement of Cost of Goods Manufactured and Sold:

(20 Marks)

- Q.No. 2. The work in process account is called controlling account. Explain why does it control in a job order cost accounting method?
(5+15 Marks)
- Q.No. 3. Discuss in detail the Auditors liability for Negligences.
(20 Marks)
- Q.No. 4. Define Audit program and how it is prepared? Discuss Advantages and limitations of audit program.
(10+10 Marks)
- Q.No. 5. From the following information calculate income tax payable by Muhammad Saleem for the tax year ending 30th June 2015.
1. Basic salary Rs: 40,000 per month in the scale (Rs: 30,000-5,000-60,000)
 2. Bouns Rs: 12,000
 3. Entertainment allowance Rs: 90,000
 4. House rent allowance at 50% of the minimum time scale
 5. Conveyance allowance Rs: 50,000
 6. Tax paid by the employer Rs: 20,000
 7. Zakat was deducted Rs: 200,000
 8. Training course fee paid by employer Rs: 25,000
 9. Encashment against unavailed leave Rs: 20,000
 10. Interest free loan obtained from employer Rs: 7,00,000
 11. Medical allowance Rs: 60,000
 12. Lahore Gymkhana membership fee paid by employer Rs: 15,000
 13. Telephone bills paid by employee himself Rs: 40,000 (tax paid with telephone bills Rs: 1000)
 14. Tax paid on cash withdrawal from bank Rs: 2,500
 15. Hotel bills paid by the company relating to official duties Rs: 30,000.
- (20 Marks)
- Q.No. 6. Define the following terms with reference to the Income Tax Ordinance 2001
- (i) Taxpayer
 - (ii) Accumulated Profits
 - (iii) Capital Assets, and
 - (iv) Dividend
- (5+5+5+5 Marks)
- Q.No. 7. "The one man control is the best control if that one is big enough to manage everything" Discuss the statement.
(20 Marks)

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

PERSIAN. PAPER-I

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. Question No.1 is compulsory

Q.1 Translate any one of the following passages into Persian.

- (a) Masood Saad Salman is ranked among the greatest poets in the history of Persian literature. His forefathers belonged to Hamedan, Iran but he was born in Lahore. He had great love for his place of birth. Due to some conspiracies, he was kept in Prison and solitary confinement for almost two decades. During this difficult period he wrote some unforgettable verses still remind us of his bitter life and moreover expose his innocence. His poetry has no competitor as regards; tragic, powerful expression, inner emotions and impressiveness.

(b)

برصغیر پاک و ہند وہ پہلا شہر ہے جو تقریباً ہزار سال قبل فارسی زبان و ادب کا مرکز بنا اور مسعود سعد سلمان اور ابو الفرج رونی جیسے شاعر اور ابو الحسن علی بن عثمان ہجویری جیسے مصنف جن کی کتاب کشف المحجوب اسنی شہر میں وجود میں آئی اپنے آثار فارسی میں لکھتے رہے ہیں۔ اصل میں ہندو پاکستان میں فارسی زبان کی ترویج اُس وقت شروع ہوئی جب دین اسلام ایرانیوں کے وسیلے سے اس ملک میں آیا اور اس ملک میں غزنوی اور غوری خاندان فارسی زبان اور ادب کی ترویج کرتے رہے ہیں۔

- Q2.** Write in detail the early Persian Avesta, religious literature and manuscripts; Rasm ul Khat.
- Q3.** Describe the role of Masnawi Manvi among the mystic poetry of Persian, give arguments.
- Q4.** Write short notes on any two of the following:
- Who was the father of Persian poetry?
 - Write a note on Qaseeda.
 - Impact of Mulana Room on Allama Mohammad Iqbal's thoughts and poetry.
 - Purist movement (Farsi Sareh) in Iran.

P.T.O

- Q5. Sultan Mahmood Ghaznavi is known to the kidnapper of scholars. Discuss the promotion of poetry and Persian prose in this period.
- Q6. Briefly discuss the main poets of Salek-E-Khurasani and their role in Persian poetry.
- Q7. Write an essay on anyone of the following.

(الف) غزل گوئی حافظ

(ب) فلسفهء خودی از علامه اقبال

(ج) اهمیت شاهنامه فردوسی در تاریخ حماسه سرایی ایران.

(د) شاعران رباعی گو در شعر فارسی

- Q8. Do as directed (Change the following sentences as directed in brackets).

۱. من درناهار کره و تخم مرغ خورده بودم. (ماضی نقلی/ماضی قریب)

۲. مادر برای سالاد کاهو و خیار و تربچه داشت. (فعل آینده)

۳. اکرم در اثر تب خیلی ضعیف شد. (فعل نهی)

۴. در بیمارستان پرستار مریضان رانگیداری می کرد. (فعل حال)

۵. ما روز پنج شنبه برای خرید به بازار رفتیم. (فعل مضارع)

۶. دیشب احمد به لاهور رفت. (فعل گزشته)

۷. تو با دوستان به باغ می روی. (فعل امر)

۸. من مسافرت با کشتی را دوست دارم. (فعل گزشته)

۹. من هر روز روزنامه می خوانم. (فعل آینده)

۱۰. توبه پدر و مادر خود را سلام می کنی. (فعل امر)

کل نمبر: 100

حصہ اول

وقت: 3 گھنٹے

20

حوالہ کے ساتھ درج ذیل میں سے کسی ایک شعری اقتباس کی تشریح کیجیے۔

سوال نمبر 1:

پریشاں ہو کے مری خاک آخردل نہ بن جائے

(الف)

جو مشکل اب ہے یا رب پھر وہی مشکل نہ بن جائے

کبھی چھوڑی ہوئی منزل بھی یاد آتی ہے راہی کو

کھٹک سی ہے جو سینے میں، غم منزل نہ بن جائے

عروج آدم خاکی سے انجم سہے جاتے ہیں

کہ یہ ٹوٹا ہوا تار امہ کامل نہ بن جائے

چاند نکلے کسی جانب تری زیبائی کا

(ب)

رنگ بدلے کسی صورت شبہ تہائی کا

دولت لب سے پھر اے خسرو شیریں دہناں

آج ارزاں ہو کوئی حرف شناسائی کا

دیدہ و دل کو سنبھالو کہ سر شام فراق

سازو سامان بہم پہنچا ہے رسوائی کا

20

حوالہ متن اور سیاق و سباق کے ساتھ درج ذیل میں سے کسی ایک اقتباس کی تشریح کیجیے۔

سوال نمبر 2:

”حضرت نوح علیہ السلام کو سینکڑوں برس تک قوم کی نفرت اور وحشت کا سامنا رہا۔ یونان دنیا کی شائستگی کا معلم اول ہے تاہم اسی

(الف)

حکمت کدے میں ستراط کو زہر کا پیالہ پینا پڑا۔ حضرت عیسیٰ علیہ السلام کو داروسن کا منظر پیش آیا۔ اس بنا پر عرب اور قریش نے جو کچھ کیا

وہ سلسلہ واقعات کی غیر معمولی کڑی نہ تھی لیکن غور طلب یہ ہے کہ اس کے مقابلے میں سرور عالم ﷺ نے کیا کیا؟“

”رئیس المتغزلین مولینا حسرت موہانی نے اپنی شاعری کے تین رنگ بتائے ہیں۔ فاسقانہ، عاشقانہ اور عارفانہ۔ مولینا کی طرح چکی

(ب)

کی مشقت تو بڑی بات ہے، مرزا عبدالودود بیگ نے تو مشق سخن سے بھی ذہن کو گراں بار نہیں کیا۔ تاہم وہ بھی اپنے فن (فونوگرانی) کو انہی

تین مہلک ادوار میں تقسیم کرتے ہیں۔ یہ ادوار بات ہے کہ ان کے یہاں یہ ترتیب بالکل الٹی ہے۔“

مندرجہ ذیل میں سے صرف تین سوالوں کے جوابات تحریر کیجیے۔

نوٹ:

- سوال نمبر 3: غالب نے شعر کے لیے حکیمانہ اسلوب اختیار کیا ہے، بحث کیجیے۔ 20
- سوال نمبر 4: چوہدری افضل حق کی تصنیف ”زندگی“ کا محققانہ جائزہ لیجیے۔ 20
- سوال نمبر 5: کیا ہم واقعاً اردو مزاح کے ”عہد یوسفی“ میں جی رہے ہیں، اپنا موقف پیش کیجیے۔ 20
- سوال نمبر 6: ”سر وادی سینا“ فیض کی انقلابیت اور شعریت کا دلاویز امتزاج ہے، اپنا نقطہ نظر پیش کیجیے۔ 20
- سوال نمبر 7: مجید امجد نے اردو نظم کونٹ نئے تجربات سے ثروت خیز بنایا ہے، مثالوں کے ساتھ وضاحت کیجیے۔ 20
- سوال نمبر 8: ناصر کی شاعری کا مجموعی تاثر ادا سی کا ہے جو ان کو معاصر شعراء سے ممتاز کرتا ہے، آپ کی رائے کیا ہے؟ 20

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

Competitive Examination for the Posts of Provincial Management Services 2018

PERSIAN PAPER-II

Time Allowed: 03 Hours

Maximum Marks: 100

Note: Attempt all FIVE questions. All questions carry equal marks.

سوال ۱: از اجزای زیر فقط دو جز را به زبان اردو یا انگلیسی ترجمه کنید: (۲۰)

- (الف) سالها دل طلب جام جم از ما میکرد
گوهری کز صدف کون و مکان بیرون است
مشکل خویش بر پیر مغان بردم دوش
گفتم این جام جهان بین بتو کی داد حکیم
(ب) فسانه گشت و کهن شد حدیث اسکندر
فسانه کهن و کارنامه ای به دروغ
حدیث آنکه سکندر کجارسید و چه کرد
شنیده ام که حدیثی که آن دوباره شود
(ج) صد کتاب آموزی از اهل هنر
هر کسی زان می که ریزد از نظر
از دم باد سحر میرد چراغ
کم خور و کم خواب و کم گفتار باش

سوال ۲: از اجزای زیر فقط دو جز را به زبان اردو یا انگلیسی توضیح دهید: (۲۰)

- (الف) هر کسی کو دور ماند از اصل خویش
من به هر جمیعتی نالان شدم
هر کسی از ظن خود شد یار من
سر من از ناله من دور نیست
(ب) زندگانی را بقا از مدعاست
زندگی در جستجو پوشیده است
آرزو را در دل خود زنده دار
آرزو جان جهان رنگ و بو است
(ج) پیکر هستی ز آثار خودی است
خویشتن را چون خودی بیدار کرد
صد جهان پوشیده اندر ذات او
در جهان تخم خصومت کاشت است
- باز جوید روزگار وصل خویش
جفت بد حالان و خوش حالان شدم
وز درون من نجست اسرار من
لیک چشم و گوش را آن نور نیست
کار وانش را دراز مدعاست
اصل او در آرزو پوشیده است
تا نگردد مشیت خالق تو مزار
فطرت هر شیء امین آرزو است
هر چه می بینی ز اسرار خودی است
آشکارا را عالم پندار کرد
غیر او پیدا است از اثبات او
خویشتن را غیر خود پنداشت است

سوال ۳: از اجزای زیر فقط دو جز را به زبان اردو یا انگلیسی ترجمه کنید: (۲۰)

(الف) درویشی مستجاب الدعوة در بغداد پدید آمد. حجاج یوسف را خبر کردند. بخواندش و گفت: دعای خیری بر من بکن. گفت: خدایا! جانم بستان. گفت: از بهر خدا این چه دعاست. گفت: این دعای خیر است ترا و جمله مسلمانان را.

(ب) دو امیرزاده در مصر بودند یکی علم آموخت و دیگر مال اندوخت عاقبة الامر آن یکی علامه عصر گشت و این یکی عزیز مصر شد پس این توانگر بچشم حقارت در فقیه نظر کردی و گفتی من بسلطنت رسیدم و این همچنان در مسکنت بمانده است گفت ای برادر شکر نعمت باری عزاسمه همچنان افزونترست بر من که میراث پیغمبران یافتم یعنی علم و ترا میراث فرعون و هابان رسید یعنی ملک مصر.

(ج) یکی از ملوک عجم طیبی حافظ بخدمت مصطفی صلی الله علیه و آله وسلم فرستاد سالی در دیار عرب بود و کسی تجربه پیش او نیاورد و معالجه از وی درخواست پیش پیغمبر آمد و گله کرد که مرین بنده را برای معالجت اصحاب فرستاده اند و درین مدت کسی التفاتی نکرد تا خدمتی که بر بنده معین است بجای آورد.

سوال ۴: درباره یکی از موضوعات زیر به زبان فارسی مقاله ای بنویسید: (۲۰)

(الف) گلستان سعدی در کتاب های اخلاقی

(ب) علامه اقبال و عشق رسول صلی الله علیه و آله وسلم

(ج) اهمیت قابوس نامه در تعمیر شخصیت

سوال ۵: درباره یکی از موضوعات زیر به زبان فارسی مقاله ای بنویسید: (۲۰)

(الف) جایگاه فرخی سیستانی در قصیده سرایی

(ب) اهمیت مثنوی معنوی در کتاب های تصوف

(ج) بررسی نظریه خودی علامه اقبال

URDU PAPER-I

Time Allowed: 03 Hours

(حصہ اول)

Max: Marks: 100

25

سوال نمبر 1 - درج ذیل میں سے کسی ایک عنوان پر جامع مضمون
تلمذ کیجیے:-

- (i) ادب اور احتساب
- (ii) نفاذ اردو کا عدالتی فیصلہ
- (iii) میڈیا کا ادبی اور تہذیبی پہلو

20

سوال نمبر 2 - درج ذیل میں سے کسی دو پر مفصل نوٹ لکھیے۔

- (i) بیسویں صدی کے اردو ادبی رسائل
- (ii) مادری زبانوں کا عالمی دن
- (iii) اردو اسلا

15

سوال نمبر 3 - موزوں عنوان کے ساتھ درج ذیل عبارت کی تلخیص کیجیے جو

ایک تہائی سے زائد نہ ہو۔
” اقبال کی فکری و شعری عظمتوں کا اعتراف عالمی سطح پر کیا گیا ہے اور یقیناً اس کا ایک بنیادی سبب یہ بھی ہے کہ اپنے عہد کے سرورجہ سالحوں کے برعکس اس کے اشعار آبدار محض سرور و انبساط کا ذریعہ نہیں بنتے اور نہ ہی اس کا فکر و فلسفہ حالت نزع طاری کرتا ہے بلکہ وہ ایک محکوم اور منجمد معاشرے کو تحریک، تغیر اور انقلاب سے آشنا کرتا ہے۔ اس سے پہلے بھی شعراء نے جمال و زیبائی کے نغمے اور ترانے بڑے طموح و ارق اور فنی مہارتوں کے ساتھ گائے تھے۔ فیلسوف اور دانشور بیکار فلسفہ طرازی سے ”ذوقِ عمل کو موت کی سینڈ سلائے کا کام لیتے رہے۔ لیکن اقبال نے اپنے افکار سے حالات کی کو بدلنے کی سعی کی اور ثابت کر دکھایا کہ فلسفی، مفکر اور شاعر کا کام دراصل دنیا کو بدلنا اور تبدیلی کی جدوجہد میں انبیا کردار ادا کرنا ہے۔ “

(حصہ دوم) (2)
کوئی سے دو سوالوں کے جوابات لکھیے۔

- 20 سوال نمبر 4 - اردو زبان کی ابتدا کے حوالے سے کسی ایک اہم
نظریے کا جائزہ دیں کیجیے۔
- 20 سوال نمبر 5 - اردو زبان کی تشکیل میں صوفیانہ ادب کا
کیا حصہ ہے۔
- 20 سوال نمبر 6 - اردو نثر کے ارتقاء میں فورٹ ولیم کالج نے
کیا کردار ادا کیا۔
- 20 سوال نمبر 7 - کیا اردو ادب پاکستان کی دیگر قومی زبانوں کا باہمی
رابطہ قومی ہم آہنگی اور ترقی کے لیے ناگزیر ہے۔
- 20 سوال نمبر 8 - ترقی پسند شعراء نے عظمت انسانی کے تصور کو
انہی شاعری کی اساس بنایا۔ انہا موقف
دیسیں کیجیے۔
-

Note :- Attempt only Five questions in all. Question
No. 3 & 8 are Compulsory.

Q. No. 01 : Write a note on poetry of Zuhair-ibn-
Abi-Salma and also note down the salient
characteristic of his Muallaga. (20)

Q. No. 02 : How Islam influenced Arabic literature?
Explain your answer by examples. (20)

Q. No. 03 : Translate the following in Urdu/English
and Explain: (20)

ألا أبلغ اباسمیان عنی
بأن سیوفنا ترکلتک عبداً
عبوت محمد فاجبت عنه
التجوه ولست له بکفوء
فان ألی ووالدتی وعلی عنی
فانت مجوف تخب حواء
وعبد الدار سادتنا الأماء
وعند الله فی ذلك الجزاء
فشرکنا الحنید کما الفداء
لعرعن محمد منکم وقاء

دمن یجعل المعروف من دون عرعه
دمن یت ذافضل فیبخل نبضله
دمن لا یتد عن عرعه صلامه
دمن عاب اسباب المنايا یتلنه
لیفره من لیتق الشتم یشتم
علی قوه لیستن عنه ویزم
تدم من الیظلم الناس یظلم
وان یرق اسباب السماء یشده

و
ا و :

Q. No. 04: Write a note on evolution of Arabic Literature in Modern era. (20)

Q. No. 05: Give a brief introduction of life and literary work of Ahmad Al-Shaqi. (20)

Q. No. 06: Write a note on life and literary work of Abbas Mahmood Al-Aqqad. (20)

Q. No. 07: Suggest various measures to be taken to flourish Arabic Literature in Pakistan. (20)

Q. No. 08:

السؤال الثامن: أجب عن الأسئلة بالعربية والكتب ح الزمرب.

- (i) ماذا تعرف عن توفيق الحكيم؟
- (ii) اذكر أسماء الثلاثة من شعراء الرسول صلى الله عليه وسلم.
- (iii) ما معنى المذمومات في الأدب العربي؟
- (iv) أي شاعر كان عمره قصير؟ اذكر اسمه، لفضله على الشعراء الآخرين؟

29 B

KHYBER PAKHTUNKHWA PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PMS-2018

LAW PAPER-II

Time Allowed: 03 HOURS

Max: Marks: 100

NOTE: Attempt any five questions. One question is compulsory from each part.

PART-A

CODE OF CRIMINAL PROCEDURE, 1998

Question No.1

- a. Define how summon to produce?
- b. When search warrant may be issued?

Question No.2

A is wounded within the local limit of jurisdiction of court X, and dies within the local limits jurisdiction of court Z.

The offence of culpable homicide of A may be inquired into:

- a. Jurisdiction of X.
- b. Jurisdiction of Z.
- c. Or tried by X or Z.

Discuss by referring the relevant provisions of the code & criminal procedure 1898.

Question No.3

Discuss when bail may be taken in case of non-bailable offence.

PART-B

PAKISTAN PENAL CODE

Question No.4

What is the law in Pakistan Penal Code regarding joint offender.

P.T.O

APPLIED MATHEMATICS (PAPER II)TIME ALLOWED: Three HoursMax. Marks: 100

Instruction: Attempt two questions from Section A, one question from section B and two questions from section C

SECTION A

Q No. 1(a) Find the regular singular point and general solution of $3xy'' + y' - y = 0$ (10)

(b) Find two linearly independent power series solution about the ordinary point $x = 0$

$$y'' - (x + 1)y' - y = 0 \quad (10)$$

Q No. 2(a) Solve the heat equation

$$\frac{\partial u}{\partial t} = k \frac{\partial^2 u}{\partial x^2}$$

$$\frac{\partial u(0,t)}{\partial x} = 0, \frac{\partial u(L,t)}{\partial x} = 0, u(x,0) = \begin{cases} 0 & x < \frac{L}{2} \\ 1 & x > \frac{L}{2} \end{cases} \quad (10)$$

(b) Find the solution of $c \frac{\partial^2 u}{\partial t^2} = a \frac{\partial^2 u}{\partial x^2} - b \frac{\partial u}{\partial t}$

$$\text{Subject to } u(0,t) = 0, u(L,t) = 0, u(x,0) = f(x), \frac{\partial u(x,0)}{\partial t} = g(x) \quad (10)$$

Q No. 3(a) Find the solution of Laplace equation

$$\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} = 0$$

the top is $z = H$ and bottom is $z = 0$ and $\frac{\partial u(x,y,0)}{\partial z} = 0, u(x,y,H) = f(x,y)$

$u = 0$ is the lateral side and region is rectangular box $0 < x < L, 0 < y < w, 0 < z < w$. (10)

(b) Calculate the total energy in the rod if two ends of a uniform rod of length L are insulated (10)

there is a constant source of thermal energy $Q_0 \neq 0$ and temperature is initially $u(x,0) = f(x)$.

Section B

Q No. 1(a) Determine the metric tensor in cylindrical coordinates. (10)

(b) Show that g^{jk} is a symmetric contravariant tensor of rank two. (10)

PUBLIC SERVICE COMMISSION, PESHWAR

COMPETITIVE EXAMINATION FOR PROVINCIAL MANAGEMENT SERVICES, 2018

PURE MATHEMATICS (PAPER-I)

TIME ALLOWED: Three Hours

Max. Marks: 100

Instruction: Attempt three questions from Section A and two questions from section B

SECTION A

Q1. (a) State and prove the first isomorphism theorem for groups. (10)

(b) Evaluate the normalizer and centralizer of Q_8 . (10)

Q2. (a) Define subring, Integral domain and the relation between them. (10)

(b) Show that $\alpha = \sqrt{1 + \sqrt[3]{2}}$ is algebraic over Q by finding $f(x) \in Q[x]$ such that (10)

$f(\alpha) = 0$.

Q3. (a) Prove the following results:

Let S be a non-empty set of vectors in a vector space V over a field F . Then $\langle S \rangle$ is a subspace of V containing S and it is the smallest subspace of V containing S . (10)

(b). Determine a basis for the null space of matrix. (10)

$$\begin{bmatrix} 1 & 2 & -4 & 2 & -3 \\ 2 & -2 & 1 & -2 & 0 \\ 0 & 1 & -1 & 1 & -1 \\ 1 & 3 & 5 & -6 & -3 \end{bmatrix}$$

Q4. (a) Solve the system of equations. (10)

$$2x + y - 2z = 10$$

$$3x + 2y + 2z = 1$$

$$5x + 4y + 3z = 4$$

(b) Find the eigenvalues and eigenvectors of the matrix.

$$A = \begin{bmatrix} 1 & -3 & 3 \\ 3 & -5 & 3 \\ 6 & -6 & 4 \end{bmatrix}$$

(10)

P.T.O. 