Roll No: ____

SUBJECT: BIOLOGY (B-17) IN Higher EDUCATION DEPARTMENT (ADVT: NO. 01/2016 S. 01)

Time: 1 hour 30 minutes

Total Marks= (100)

<u>DIRECTION</u>: Each of the questions below is followed by four suggested answers. Select the one that is BEST in each case and shade your choose option A, B, C or D. as shown in the sample given below:

Sample Q: Quaid-e-Azam was born at:						
	Α.	Lahore	Β.	Karachi		
	C.	Quetta	D.	None of these		
Correct answer is "Karachi" mentioned in option "B", so you will shade option "B" on you						

Correct answer is "**Karachi**" mentioned in option "B", so you will shade option "B" on your Answer Sheet as shown in the sample below:

NOTE:

- CANDIDATES ARE ADVISED TO CHECK HIS / HER QUESTION BOOK BEFORE THE START OF TEST & REPORT ANY MISS-PRINTING, PAGE MISSING OR QUESTION MISSING TO INVIGILATOR.
- NO NEGATIVE MARKING
- CALCULATORS ARE NOT ALLOWED
- PLEASE DON'T WRITE OVER THE BOOKLET AND RETURN IT TO THE EXAM: STAFF BEFORE LEAVING THE EXAM: HALL. OTHERWISE YOU WILL BE DISQUALIFIED FROM THE TEST.

SELECT THE BEST ANSWER FOR FOLLOWING QUESTIONS:

Q. No. :	No.: 1 The scientific study of livings is called?					
Q. 110	•	A. Anatomy	Β.	Biology		
		C. Geology	D.	Zoology		
Q. No. :	2	The word "BIOLOGY" has been derived from word?				
		A. Latin	В.	English		
		C. Greek	D.	French		
Q. No. :	3 According to modern system of taxonomy, living organisms have been class into?					
		A. Three Kingdoms	В.	Five Kingdoms		
		C. Two Kingdoms	D.	Six Kingdoms		
Q. No. :	4	Kingdom Protoctista includes				
		A. Fungi	В.	Prokaryotes		
		C. Protists	D.	Piantae		
Q. No. :	5	Kingdom Fungi includes		_?		
		A. A cellular, eukaryotic organisms	В.	Non-chlorophylls, multicellular		
				eukaiyotlc organisms		
		C. Non-chlorophylls, multioellular,	D.	Chlorophyllus, multicellular,		
		thailophytic organisms		eukaryotic Organisms		
Q. No. :	6	Earthworm is included in	7	2		
		A. Kingdom Plantae	В.	Kingdom Protoctista		
		C. Kingdom Monera	D.	Kingdom Animalia		
Q. No. :	7	The Study of organisms inhabiting t				
		chemical characteristics of their env				
		A. Social Biology	В.	Marine Biology		
		C. Environmental Biology	D.	Fresh Water Biology		
Q. No. :	8	The branch of Biology which deals with the use of data and techniques of				
		engineering & technology concerning living organisms is:				
		A. Human Biology	В.	Environmental Biology		
		C. Genetics	D.	Bio-technology		





		The breach is subject encodered	:6-	and made of the sector and
Q. No. :	9	The branch in which organism's I interaction with their hosts are studie		
		A. Anatomy C. Parasitology	B.	Physiology
	10		D.	Social Biology
Q. No. :	10	The molecules of living matter tha based on:	t pr	ovide building blocks are mostly
		A. Carbon	B.	Nitrogon
			Б. D.	Nitrogen
Q. No. :	4.4		υ.	Ammonia
Q. NO	11	Human blood is an example of	B.	_{ Tiaauaa
			Б. D.	Tissues
Q. No. :	12			Inorganic compounds
Q. NO	12	With different chemical arrangements the life emerges on the level of the?	s an	a formation of complex molecules,
		A. Cells	B.	Tissues
			Б. D.	
Q. No. :	13	C. Organs Organelles are?	υ.	Organ System
Q. NO	13	A. Unicellular structures	B.	Multi-cellular structures
		C. Sub-cellular structures	Б. D.	Non-cellular structures
Q. No. :	14	Functional unit of DNA Is	2. ?	Non-cellular structures
Q. NU	14	A. Nucleus	? 	Genes
			D.	Nucleolus
Q. No. :	15	C. Chromosomes Various tissue types combine to mak		
Q. NO	15	A. Cells	B.	Organs
		C. Organ System	D.	Organelles
Q. No. :	16	Two or more populations of differen		U U U U U U U U U U U U U U U U U U U
Q. NO	10	same area form	n sp	becies inving and interacting in the
		A. Biosphere	B.	Community
		C. Population System	D.	Ecosystem
Q. No. :	17	A group of similar cells that perform		
Q. NO	17	A. Organ	B.	Tissues
		C. Organelle		Organ System
Q. No. :	18	Which of the following is an example		
Q. 110	10	A. Chloroplast	В.	A Nerve Cell
		C. DNA	D.	Hydrogen
Q. No. :	19	A group of very similar inter breeding		
G. 110	10	A. Biosphere	B.	Ecosystem
		C. Population	D.	Species
Q. No. :	20	Members of one species inhabiting the		
		A. Species	В.	Community
		C. Ecosystem	D.	Population
Q. No. :	21	On the basis of collected facts and fi		
Q. NU	<u>د</u> ا	statement called:	guie	
		A. Observation	B.	Research work
		C. Hypothesis	D.	Inductive Reasoning
Q. No. :	22	Robert Hooke discovered	· ,	?
S. 110	~~	A. Nucleus	B.	Mitochondria
		C. Cell	D.	DNA
Q. No. :	23	Steps Involved in scientific method a		
Q. NU	20	A. Hypothesis –>Accumulated data –	B.	New data —> Conclusion —>
		 > observation & experimentation – 		Accumulated data —> Observation
		> conclusion		& experimentation
		C. Accumulated data – New data –	D.	Accumulated data —> Hypothesis
		Observation & experimentation –		-> Observation &
		Hypothesis -> Conclusion		experimentation —> New data —>
				Conclusion
Q. No. :	24	Malaria is associated with	?	
	_ ·	A. Culex Mosquito	 B.	Culiesta Mosquito
		C. Anopheles Mosquito	D.	Culex & Anopheles Mosquito
L				



Q. No. :	25	Pielegiet (Creese' discovered the life (e of plasmodium in ?
Q. NO	25	Biologist 'Grass' discovered the life of A. 1896	B.	1897
		C. 1898	Б. D.	1897
Q. No. :	26	The first antibiotic to be discovered v		?
Q. NO	20	A. Penicillin	B.	Cephalosporin
		C. Amino glycosides	D.	Erythromycin
Q. No. :	27	Immunization by vaccination was firs		
Q. NO	21	A. Fleming in 1945	B.	Florey & Chain in 1975
		C. Flore & Chain in 1795	D.	Edward Jenner in 1795
Q. No. :	28	The science of growing terrestr		plants in an aerated solution
Q. 110	20	is ?	iai	
		A. Hydrodynamics	В.	Hydroponics
		C. Hydroponics	D.	None of them
Q. No. :	29	An educated guess is called:		
		A. Accumulated Data	В.	Observation
		C. Hypothesis	D.	Conclusion
Q. No. :	30	Dolly, the sheep was a highly succes	sful	clone from a somatic cell, reported
		back in?		· •
		A. 1993	В.	1994
		C. 1995	D.	1996
Q. No. :	31	Crop rotation helps in	?	
		A. Growth of pathogens	В.	Soil Infertility
		C. Slowing of crops growth	D.	Eradication of disease
Q. No. :	32	People living in high altitudes (like m	oun	tains) usually have a ?
		A. smaller number of Red Blood	В.	larger number of Red Blood Cells
		Cells		
		C. smaller number of White Blood	D.	larger number of White Blood Cells
		Cells		5
Q. No. :	33	Which character differentiates living	thin	gs from non-living organisms?
		A. They live in the same ecosystem.	В.	They are highly organized and
				complex made of one or more
				cells and contain genetic material
		C. They are acted upon by the same	D.	Both a and b
		environment		
Q. No. :	34	Which Vitamin is needed for the for	rmat	tion of a light-sensitive pigment in
		the retina.		-
		A. Vitamin A	Β.	Vitamin C
		C. Vitamin D	D.	B complex
Q. No. :	35	The average internal temperature of h		
		A. 35°C	В.	36°C
		C. 37°C	D.	38°C
Q. No. :	36	The study of fossils is called?		
		A. Environmental Biology	В.	Historical biology
		C. Palaeontology	D.	Social biology
Q. No. :	37			a mammal is water?
		A. 60%	В.	65%
		C. 70%	D.	75%
Q. No. :	38	The experiments on DNA molecules		hromosomes for knowing the basis
		of inherited diseases are conducted l		
		A. Molecular biologists	B.	Microbiologists
	00	C. Freshwater biologists	D.	Social biologist
Q. No. :	39			cles, like bacteria?
		A. White Blood cells	Β.	Red Blood Cells
		C. Platelets	D.	Plasma
Q. No. :	40	Synthetic insulin from pork was form		
		A. Biotechnology	В.	Social biological techniques
		C. Parasitology	D.	Both a and c



Q. No. :	41	Blood is carried towards the heart by		?
		A. Arteries	Β.	Capillaries
		C. Veins	D.	none of these
Q. No. :	42	The branch of biology which deals	with	the study of social behavior and
		communal life of human beings living		
		A. Environmental biology	B.	Social biology
		C. Human biology	D.	Both b and c
Q. No. :	43	is essential for the forma		
Q. NO	43		B.	
		A. Calcium		Iron
		C. Water	D.	Carbohydrates
Q. No. :	44	Out of 92 naturally occurring chemic as bio-elements?		elements how many are considered
		A. 6	В.	16
		C. 26	D.	15
Q. No. :	45	are needed as a source	e of	energy for the vital activities of the
		body?		
		A. Calcium	Β.	Iron
		C. Water	D.	Carbohydrates
Q. No. :	46		s hu	man body mass?
G. 110	10	A. 65%	B.	18%
		C. 10%	D.	3%
	47	- 1070		
Q. No. :	47	The atoms of different elements cor		•
		covalent bonding to produce compo		
		A. An organ	В.	A molecule
		C. Tissue	D.	Both a and c
Q. No. :	48	Which one of them is a micro-molecu	ıle?	
		A. Polysaccharide	Β.	Protein
		C. Hemoglobin	D.	ATP
Q. No. :	49	A structure formed by groups of sim	ilar d	cells organized into loose sheets or
		bundles performing similar functions		
		A. An organ	Β.	An organism
		C. A Tissue	D.	
Q. No. :	50	Haemodialysis means cleaning of	I	?
		A. Urine	В.	Blood
		C. Glomerular filterate	D.	Coelomic fluid
Q. No. :	51	In animals coordination is achieved to		
Q. NO	51		B.	Endocrine system
			D.	
	50			Both A and B
Q. No. :	52	Production of sweat and sebum is re		
		A. Skin	В.	Liver
		C. Lungs	D.	GIT
Q. No. :	53	Group of living organisms of the sa	me s	species living in the same place at
		the same time is called?		
		A. Community	В.	Population
		C. Ecosystem	D.	Biome
Q. No. :	54	The evaporative cooling in the respir	ator	y tract of dogs is called?
		A. Vasodilation	В.	Vasoconstriction
		C. Panting	D.	All of these
Q. No. :	55	Different species of plants and anima		
G. 110	00	A. Population	B.	Community
		C. Biome	D.	Habitat
	50			
Q. NO. :	Q. No. : 56 Which of the following pathogen type cause disease that car			cause disease that can be treated
		with antibiotics?		
		A. Bacteria	В.	Fungi
		C. Virus	D.	none of these
Q. No. :	57	A large regional community primarily	<u>/ det</u>	ermined by climate is called?
		A. Population	В.	Community
		C. Biome	D.	Habitat



Q. No. :	58	Most cell membranes are composed principally of?				
		A. DNA ad protein B. Protein and Lipids				
		C. Protein and Chitin D. Protein and RNA				
Q. No. :	59	The concept that various organisms dominated this planet during various				
		geological time period and thus placing organisms in a time squence came				
		from the studies by?				
		A. Environmental biologist B. Paleontologist				
		C. Marine biologist D. Social biologist				
Q. No. :	60	Normally, in the process of osmosis, the net flow of water molecules into or				
		out of the cell depends upon differences in the?				
		A. Concentration of water B. Concentration of enzymes on either				
		molecules inside and outside side of the cell membrane				
		the cell				
		C. Rate of molecular motion on D. None of these				
		either side of the cell membrane				
Q. No. :	61	An unbroken series of species arranged in ancestors to descendent				
		sequence with each later species having evolved from one that immediately				
		preceded it is called?				
		A. Biome B. Phyletic lineage				
		C. Community D. Population				
Q. No. :	62	Proteins are made from amino acids by the process of?				
		A. Hydrolysis B. Pinocytosis				
		C. Dehydration synthesis D. Active transport				
Q. No. :	63	Biological sciences have a set methodology and it is based on?				
		A. Experimental inquiry B. Esthetic preference				
		C. Philosophical ideas D. Imaginations				
Q. No. :	64	Which is an organic compound found in most cells?				
		A. Water B. Glucose				
		C. Oxygen D. Sodium chloride				
Q. No. :	65	A series of hypothesis supported by the results of many tests is called?				
		A. Scientific law B. Theory				
		C. Data D. Deduction				
Q. No. :	66	Which are the four most abundant elements in living cells?				
		A. carbon, oxygen, nitrogen, sulfur B. carbon, oxygen, hydrogen,				
		nitrogen				
		C. carbon, oxygen, sulfur, D. carbon, sulfur, hydrogen,				
		phosphorus magnesium				
Q. No. :	67	Which one is not correct for a productive theory?				
		A. It is predictive B. It has explanatory power				
		C. It discourages suggestion of D. None of these				
		different hypotheses				
Q. No. :	68	Conclusion of Mendels work latter became a?				
		A. Scientific hypothesis B. Theory				
		C. Scientific law D. Productive theory				
Q. No. :	69	Starch is converted into maltose by?				
		A. Diastase B. Invertase				
		C. Maltase D. Amylase				
Q. No. :	70	Breeders have developed new and better varieties of food items by using				
		which technique?				
		A.PasteurizationB.Hydroponic culture technique				
		C.Genetic engineeringD.Biological control techniques				
Q. No. :	71	Co-enzyme is often formed from?				
		A. Lipid B. Protein				
		C. inorganic ion D. Vitamin				
Q. No. :	72	Production of genetically identical copies of organisms/cells by asexula				
		reproduction is called?				
		A. Mitosis B. Replication				
1		C. Cloning D. Biological control				



Q. No. :	73	Messenger RNA is formed in	?	
		A. Nucleus	Β.	Chloroplast
		C. Mitochondria	D.	none of these
Q. No. :	74	Astronauts may use which technique		
Q. 1101 .	• •	A. Tissue culture techniques	В.	Cloning
		C. Pasterisation	D.	Hydroponic culture technique
Q. No. :	75	Number of chromosomes in E.coli?	υ.	
Q. NO	75	A. 1	В.	2
		C. 4	D.	6
Q. No. :	76	Which statement is incorrect for past		-
Q. NO	10	A. It is used to preserve yogurt and	B.	It was developed by Louis Pasteur.
		milk	Ъ.	It was developed by Louis I astedi.
		C. It involves heating the substance	D.	It can be used to preserve
		at high temperature for just few	υ.	vegetables and meat.
		sec.		vegetables and meat.
Q. No. :	77	Protein factory is?		
Q. NO	11	A. Nucleus	В.	Ribosome
		C. golgi complex	D.	Centriole
Q. No. :	78	What is the mode of transmission of		
Q. NO	10	A. Aerosol	пер B.	
			В. D.	Parentral (via blood) Unknown
	70			
Q. No. :	79	Smallest disease causing agents in p		
		A. Virion	B.	Mycoplasma
		C. Viroids	D.	Prions
Q. No. :	80	Which disease can be controlled by v		
		A. Measles	В.	Cancer
		C. Diabetes	D.	Heart attack
Q. No. :	81	The major cell infected by the HIV is I		
		A. helper-T	В.	В
		C. both T and B	D.	none of these
Q. No. :	82	Vaccine was first developed by		?
		A. Louis Pasture	В.	Edward Jenner
		C. Jaber Ibn Hayan	D.	Aristotle
Q. No. :	83	Pigment present in red algae is		?
		A. Fucoxanthin	В.	Phycocyanin
		C. Phycoerythrin	D.	Bilirubin
Q. No. :	84	Which disease has been totally er	adi	cated from the world because of
		effective vaccination?		
		A. Measles	В.	Polio
		C. Small pox	D.	Hepatitis
Q. No. :	85	Nutrition in fungi is?		
		A. Photosynthetic	В.	Chemosynthetic
		C. Completely parasitic	D.	Absorptive heterotrophs
Q. No. :	86	Which of the following statement is in		· · · · · · · · · · · · · · · · · · ·
Q. 110	00	A. Used They are used against	B.	They are always effective against
		microorganisms		bacteria
		C. They are used in diseases like	D.	They are derived from bacteria
		tuberculosis and pneumonia	υ.	only
Q. No. :	87	Fungi resemble plants because they	lack	
Q. NU	07	A. Cell wall	B.	`
		C. Centriole	В. D.	Cytoplasm Nucleus
	00			
Q. No. :	88	Which treatment is instituted in a can	1	
		A. Antibiotic therapy	B.	Radiotherapy
		C. Gene therapy	D.	None of these
Q. No. :	89	Which is a parasitic plant?	-	
		A. Cuscuta	В.	Rose
		C. Ferns	D.	Mosses



Q. No. :	90	Which statement is incorrect for cloning?				
		A. The nucleus of a fertilized egg is	В.	Division of a single egg into one or		
		replaced by the nucleus from the		more separate embryos.		
		cell of a fully developed individual	_			
		C. The individual is the mirror image	D.	It involve methods of sexual		
		of the parent organism		reproduction		
Q. No. :	91	True roots absent in?				
		A. Ferns	В.	Bryophytes		
		C. Gymnosperms	D.	Angiosperms		
Q. No. :	92	Removal or degradation of environr	nen	tal pollutants or toxic materials by		
		living organisms is called	_?			
		A. Integrated disease management	В.	Hydroponic culture technique		
		C. Pasteurization	D.	Bioremediation		
. No. :	93	The mechanism for ATP synthesis is		?		
		A. Chemosynthesis	В.	Photosynthesis		
		C. Phosphorylation	D.	Chemiosmosis		
Q. No. :	94	Which of the following is not a viral of	lisea	ase?		
		A. Cowpox	В.	Mumps		
		C. Tetanus	D.	Small pox		
Q. No. :	95	Enzyme present in the saliva is		?		
		A. Lipase	В.	Trypsin		
		C. Ptyalin	D.	Invertase		
Q. No. :	96	In human body 99% of total mass is f	orm	ned of?		
		A. 16 Bio-elements	В.	12 Bio-elements		
		C. 10 Bio-elements	D.	6 Bio-elements		
Q. No. :	97	Nitrogen is present in?				
		A. Carbohydrates	В.	Proteins		
		C. Lipids	D.	Carbonates		
Q. No. :	98	Biological organization is		?		
		A. Simple	В.	Advance		
		C. Complex	D.	highly complex		
Q. No. :	99	Operculum is present in	_?			
		A. bony fish	В.	sea fish		
		C. cartilaginous fish	D.	none of these		
Q. No. :	100		s of	the division of labour within cell?		
		A. Molecule	В.	Subatomic particles		
		C. Atoms	D.	Organelles		