Roll	No.	:	
Kon	NO.		

Objective

Paper Code

Intermediate Part First

BIOLOGY (Objective) Time: 20 Minutes

GROUP - II

6464

Marks: 17

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

5.#	Questions	A	В	C	D
1	If $\psi_w = -800  \text{kPa}$ and $\psi_s = -1400  \text{kPa}$ , then $\psi_p$ will be:	600 kPa	– 600 kPa	– 2200 kPa	2200 kPa
2	How many liters of blood are present in man whose body weight is 96kgs?	6	7	8	9
3	When carbon dioxide pressure increases, the capacity of haemoglobin to hold oxygen is:	Decreased	Increased many folds	Remained constant	Doubled
4	Dipeptides are broken down into amino acids by:	Lipase	Pepsin	Trypsin	Erypsin
5	The NADPH molecule reduces the sugar during in:	Cyclic phosphorylation	Non cyclic phosphorylation	Calvin cycle	Electron transport chain
6	The molecular formula of chlorophyll "b" is:	C55H72O5N4Mg	C55H70O6N4Mg	C <sub>50</sub> H <sub>72</sub> O <sub>5</sub> N <sub>4</sub> Mg	C50H70O6N4M8
7	The left aortic arch is present in:	Cat	Crow	Frog	Cockroach
8	Polymorphism is the characteristics of phylum:	Mollusca	Arthropoda	Coelenterata	Porifera
9	The earliest group of vascular plants belongs to:	Psilopsida	Lycopsida	Sphenopsida	Pteropsida
1		Aspergillus	Penicillium	Saccharomyces	Neurospora
1	1 Polysiphonia is an example of:	Green algae	Red algae	Brown algae	Golden algae
1	2 Which type of the bacterium E.coli is?	Aerobic	Anaerobic	Microaerophilic	Facultative anaerobic
1	3 The scientific name of tomato is:	Solanum nigram	Solanum tuberosum	Solanum esculentum	Allium cepa
1	Organelles found in both prokaryotic and eukaryotic cells are:	Endoplasmic reticulum	Mitochondria	Ribosomes	Lysosomes
1	5 Vitamins are the essential raw material for the synthesis of:	Prosthetic group	Coenzyme	Activator	Apoenzyme
1	6 The secondary structure of protein is found in:	Trypsin	Insulin	Glucagon	Keratin
1	7 Tentative explanation of observation is called as:	Hypothesis	Deduction	Theory	Law

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## BIOLOGY

(Subjective)

GROUP - II

Time: 02:40 Hours

Marks: 68

1	2	W	te short answers to an EXCON – I	
		WI	and the state of t	
		(ii)	What is parasexuality? Give to	
		(iii)	Write three general characteristics of animals.  Name two animals in which the state of animals.	
		(iv)		
		(v)	How water enters water vaccular and become modified.	
		(vi)	What are two adaptation of canals in echinoderm? Name that structure and its least	
		(vii)	Why do all biochemical reactions not follow the lock and key model?  What are enzymes? Give their importance.	ly side.
		(viii)	What are enzymes? Give the lock and key model?	
		(ix)	How does enzymes accelerate the rate of metabolic reaction?  Why photosynthesis is called redox present 2 with the reaction?	
		(x)	Why photosynthesis is celled the rate of metabolic reaction?	
		(xi)	What is photosystem?	
		(xii)	How would you identify a to a large the two parts.	
	3.	Writ	How would you identify starch and glycogen solution?  te short answers to any EIGHT parts.	
		(i)		
		(ii)	Define bioelements. Name the bioelements which occur in traces in human body.	16
		(iii)	Distinguish the micromolecules and macromolecules.  Give two functions of ended to the distinguish the micromolecules and macromolecules.	
		(iv)	Give two functions of endoplasmic reticulum.  Define cell. Who discovered the cell?	
		(v)	What are kelps? Give their structure.	
			Differentiate the diatoms and dinoflagellates.	
		(vii)	How algae differ from plants?	
		(viii)	Define water blooms. What is their effect on animals?	
		(ix)	Differentiate the organismic respiration from cellular respiration.	
		(x)	What are tracheoles in cockroach and state their function?	
		(xi)	Name four parts of heart of fishes.	
		(xii)	Differentiate the osmotic potential and pressure potential.	
	4.	Writ	e short answers to any SIX parts.	
		(i)	Differentiate the phage virus and a prophage.	12
		(ii)	What are plasmids? Give their importance for bacteria.	
		(iii)	How would you clarify microphylls and megaphylls?	
		(iv)	Why calyx and corolla are called non-essential reproductive parts of flower?	
	(	(v)	How ovules of gymnosperms differs from that of angiosperms?	
	(	(vi)	What are arthrophyte plants? Give example.	
	(	vii)	Write names and position of salivary glands in man.	
		viii)	Where are the villi located? Give their role.	
	(	ix) I	How Sundew (Drosera) shows its insectivorous activity.	
			SECTION - II Attempt any THREE questions. Each question carries 08 marks	7
			SECTION - II Attempt any THREE questions. Each question carries 08 marks.	
5	i. (	a) Sug	gest measures to conserve deteriorating environment of Pakistan.	04
	(	b)Air	is better respiratory medium than water. Justify.	04
,				
6				1,02,01
	(t	)Des	cribe different ways in which fungi are useful and harmful to human.	02,02
7	1	11760	t are luces among If some luces amel angumes are absent what hannous? Fundain it with any	01.00
1.			t are lysosomes? If some lysosomal enzymes are absent, what happens? Explain it with examples	
	(b	The )	digestive tract of a sheep is different from that of cats. How?	04
Q	(0)	Give	biological classification of corn. Also write the importance of binomial nomenclature.	02,02
0.				
	(0)	How	evolution of heart took place in vertebrates?	04
)	(2)	Write	characteristics and economic importance of cyanobacteria.	04
			ass and draw Calvin cycle.	04
	(D)	DISCL	iss and draw Carvin Cycle.	04

8.