## **BIOLOGY QUESTION PAPER**

Time:	2 Hrs.				Max. Mar	ks : 40	
Note:							
	All questions are compulsory. (ii) Figures	s to the	e right indicate	full r	narks		
	Draw neat, labelled diagrams wherever necessary.						
	·						
	All questions carry equal marks.						
(v) Answer to every question must be written on a new page.							
Q.1: Select and write the most appropriate answer from the given alternatives in each							
	sub-question. Egg apparatus consists of					[8]	
(1)	(a) egg and antipodals	(h)	acc and polar n	نمامن		(1)	
			egg and polar nu egg and secondar		cions		
(ii)	The net gain of energy from a molecule of gluce			•		(1)	
()	(a) 38 ATP (b) 35 ATP		-		76 ATP	(1)	
(iii)	Mushrooms contain higher amount of	(4)	, , , , , , , , , , , , , , , , , , , ,	(-)	70111	(1)	
•	(a) Lipids (b) Proteins	(c)	Carbohydrates	(d)	Oil		
(iv)	In plants growth is due to		•			(1)	
	(a) Parenchyma	(b) 🗀	Collenchyma				
			Meristem				
(v)	The chemical linking of Glycolysis and Krebs					(1)	
	(a) Succinic acid	* * *	Pyruvic acid				
<i>(</i> · · ·	(c) Citric acid		Acetyl Co - A			(=)	
(V1)	In mushroom cultivation, covering of beds is kr		_	(4)	Commenting	(1)	
(14:4)	(a) Layering (b) Casin	(C)	S <b>pa</b> wning	(a)	Composting	(1)	
(V11)	Embryo sac is	(b)	Microsporangiu	n		(1)	
			Megasporangiur				
(viii)	2-4 Dicholorophenoxy acetic acid is a	(4)	wee gas por unique	•		(1)	
(	(a) Insecticide	(b)	Herbicide			<b>\-</b> /	
		• •.	Rooting honnort	e			
Q. 2 (A	Enlist the Medicinal uses of Aloe yera.		· ·			(2) [8]	
OR							
	Explain Anabaena and Azolla as a biofertilize	er.					
( <b>(B)</b>	Give practical applications of Cytokinins.					(2)	
	OR						
Explain the factors affecting growth.  (C) Draw a well labelled diagram of T.S. of Root showing water movement.  (2)							
-	Explain the role of water resources.	SHOWIX	ng water movem	ient.		(2) (2)	
	a): Describe Hill reaction.					(2) [8]	
	Write a note on Root pressure theory.					(2)	
(2)	OR					(_/	
	Give significance of Transpiration.						
(C)	Write a note on vegetative reproduction by Buc	ıdding	<b>,</b> ',			(2)	
(D)	Describe advantages of Remote sensing technic	ique w	rith respect to Vo	egeta	tion.	(2)	
	OR		_				
	Give the importance of Forests.						
Q.4:	Attempt Any TWO of the following:	ē				[8]	
(A)						(4)	
(B)						(4)	
	Describe Watson and Crick model of DNA.  What is Cloning 2 Describe plant and animal a	alonin	a and aire its in			(4) (a) [a]	
Q. 5:	What is Cloning? Describe plant and animal of OR	CIOUIU	g and give its in	iport	ance.	(8) [8]	
(A)						(4)	
(B)	Describe the development of Female gametoph	hyte ir	n Angiosperms.			(4)	