Total Time: 3:00 Hours

A 1

B 2

Biology (Part-I) (Fresh/New Course)

Note: There are three sections in this paper i.e. Section A, B & C.

VERSION: B

Time A	lowed: 20 Minutes	"Section	ı-A"	Marks: 18
	Use black ball point	n on the MCOs Answer Sho or marker for shading only on arded for cutting, erasing, over	e circle for correct option of	
Q. 1.	Choose the correct or	otion i.e. A,B,C, or D.		
1.	The example of non competitive inhibitor is			
	Cyanide	© Sulphonamide	Antibiotics	① Drugs
2.	The end product of non	-cyclic electron pathway is	*****	
	(A) ATP		© Glucose	Both A & B
3.	Microsporum Furfur ca	uses		
	(A) Ergot	Dandruff	© Ringworm	Athlete's foot
4.	Which of the following	y vascular plant is said to be	living fossil?	
	A Psilotum	Rhynia	Equistem	Salaginella
5.	Number of DNA molecule(s) in the nucleoid of bacterium is			
	A 3	(B) 4	12	1
6.	The membrane bounde	d space of endoplasmic reti	culum is called	••••••••••••••••••••••••••••••••••••••
	Cisternae	Stroma	O Lamellae	Microtubule
7.	Lack of Vitamin B prod	luces		
•	(A) Blindness	Beriberi	© Anaemia	Red eyes
8.	Which of the following factor does not effect the rate of enzyme reaction?			
	Enzyme concentration	Light intensity	© Substrate concentration	D Temperature
9.	The tissue most likely t	to provide flexible support is	······································	· · · · · · · · · · · · · · · · · · ·
		Sclerenchyma	© Parenchyma	Collenchyma
10.	Normal human heartbe	eat per minute is	beats.	
	♠ 80	(B) 85	● 7 2	② 100
11.	. Optimum temperature	for mammalian enzyme is .	*****	
		● 40 °C	⊚ 90 °C	⑤ 50 ℃
12	Optimum pH range for	r stomach lipase is about		•
	A 4.0 to 5.0	B 6.7 to 7.0	7.0 to 8.0	(a) 6.1 to 6.8
13	. Carotenoid pigments a	bsorb which type of light w	ave length?	The second secon
	● 500-600 nm	® 300-400 nm	© 670-700 nm	(b) 390-430 nm
14	. The sequence of dark r	reactions in photosynthesis	was investigated by	
	Melvin Calvin	Van Neil	© Grifth	Robert Hook
15	. Sugar cane and maize a	are examples of which type	of plants?	•
-	♠ C ₃ plant	C ₄ plant	© Xerophytes	① Halophytes
16		d of HIV is made from whic		
	♠ gp 120	® gp 41	p 24	p 17
17		er in plasma membrane is co	- · · · ·	8
	(A) Catalase	® Lipase	Permease	① Arginase
19		ren hande hetween augnine	the state of the s	<u>.</u>

3

O None of these

Total Time: 2:40 Hours

Biology (Part-I)

(Fresh/New Course)

"Section-B"

Marks: 40

Total Marks: 67

- Q. 2. Write short answers of any Ten (10) of the following parts. Each part carries equal marks.
 - Write note on Ribosome. (i)
 - Differentiate between Condensation and Hydrolysis. (ii)
- (iii) Enlist at least four functions of protein.
- (iv) What is Dinucleotide?
- Write note on Co-factor. (v)
- What is Chemiosmotic ATP Synthesis? (vi)
- (vii) What is Photorespiration?
- Differentiate between Cyclic and Non Cyclic photo phosphorylation. (viii)
- What are Viroids? What type of disease they cause? (ix)
- (x) Differentiate between Archaea and Bacteria.
- (xi) How Angiosperm differ from Gymnosperm?
- (iix) Discuss Polymorphism.
- Write four types of plants on the basis of water availability. (xiii)

"Section-C"

Marks: 27

Answer any Three (3) questions. Each question carries equal marks. Note:

- Discuss in detail the vascular tissues and their role in transport of materials in plants. Q. 3.
- Q. 4. Write in detail the liver function in human body.
- Q, 5. Write a detail note on any three groups of plant like protists.
- Write comprehensive notes on any Two of the following. Q, 6
 - Physical methods to control harmful bacteria. (a)
 - DNA as a Hereditary Material. (b)
 - Inhibitors and their kinds. (c)