Reg. No. RA 2011004010	0	5 1	
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B.Tech. DEGREE EXAMINATION, JULY 2022

Third and Fourth Semester

18BTB101T - BIOLOGY

(For the candidates admitted from the academic year 2020 - 2021 and 2021 - 2022)

Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed

Note:

(i)

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(ii)	over to hall invigilator at the end of 4 Part - B should be answered in answ						
Time: 21	4 Hours			Max.	Mai	rks:	75
	PART – A (25 ×	1 = 25 M	(arks)	Marks	BL	со	PO
	Answer ALI						
1	Which of the following is related			1	1	1	1
	(A) Lysosome		Nucleolus				
	(C) Plasma membrane		Chloroplast				
2	Which of the following is related	to DNA?		1	1	1	1
2.	(A) Nucleotides		Amino acids				
			Polysaccharides				
	(C) Fatty acids	(D)	Folysaccharides				
3	The term "power house" is assoc	iated with		1	1	1	1
٥.	(A) Nucleus		Chloroplast				
	(C) Mitochondria		Endoplasmic reticulum				
	(C) Wittochondria	(D)	Endoptasinie retreatant				
4.	The example of eukaryotic unice	llular orga	nism is	1	1	1	1
	(A) Fungi	(B)	Yeast				
	(C) Cow	(D)	Bacteria				
5	Bacteria is associated with	kingdo	m.	1	1	1	1
٥.	(A) Plantae	(B)	Monera				
	(C) Protista		Fungi				
	(C) Housta	(2)					
6	The sickle cell anemia is associa	ted with	· · · · · · · · · · · · · · · · · · ·	1	1	. 2	2
0.	(A) Gelatin	(B)	Steroids				
	(C) Glucose		Hemoglobin				
		anda ta mia	Irato	1	1	2	2
7.							
	(A) A	(B)					
	(C) C	(D)	D				
8	The glucose molecule is related	to		1	1	2	2 2
	(A) Polysaccharides	(B)	Monosaccharides				
	(C) Disaccharides	(D)	Oligosaccharides				
0	Which statement is NOT related	to linid m	polecule?	1	1	1	2 2
9.		(B)	Protect the organs				
	(A) Insulate the body		Involves in gene transfer				
	(C) It act as a energy reservoir	(D)	mvolves in gene dansier			-	70

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10.		nitrogenous bases are ab	sent in	DNA.	1	1	2	2
	(A)	Guanine	(B)	Cytosine				
	(C)	Uracil	(D)	Adenine				
11	Whi	ch is NOT an example of enzy	me?	man Hay	1	1	3	2
**		Pepsin Pepsin	(R)	Trypsin				
		Pepsin Ghrelin	(D)	Papain				
	(0)	Omem	(D)	rapam				
12.		ch of the following is an exam			1	. 1	3	2
		Biotin	(B)	NAD				
	(C)	FAD	(D)	Copper				
13.	Whi	ch is related to the enzyme me	tallopro	ntease?	1	1	3	2
		Thermolysin	(B)	Panain				
		Thermolysin Thrombin	(D)	Chymotrypsin				
	(0)	Thiomon	(D)	Chymouyponi				
14.		is the inhibitor of sering	e protea	se enzyme.	1	1	3	2
		Salicylic acid	(B)	Fluorophosphates				
	(C)	Polymer	(D)	O-phenanthroline				
15.	The	hill reaction occurs is	in th	ne plants.	1	1	. 3	2
		Cytoplasm		Matrix				
		Stroma		Thylakoid membrane				
16	The	flagellar motor is associated w	ith		1	1	4	3
10.		C-ring		Hook				
		W-ring		MS-ring				
17	The	estis Clament is a composition	of		1	1	4	3
11.		actin filament is a composition		Nuclear membrane				
	(A)	Plasma membrane	(D)	Lysosome				
	(C)	Cytoskeleton	(D)	Lysosome				
18.		tify the anaerobic bacteria from			1	1	4	3
		Rhodococcus	(B)	Alcaligenes				
	(C)	Actinomyces	(D)	Pseudomonas				
19.	The	ex-situ bioremediation is assoc	iated w	rith	1	1	4	3
	(A)	Biosparging	(B)	Biopiles				
	and the second	Biostimulation		Bioventing				
20.		hormone is detected in th	e urine	sample for pregnancy test.	1	1	4	3
20.	(A)	FGH		Insulin				
		HCG		FSH				
21	un.					100		2
21.		ch cells involve in insulation o			1	1	5	-
		Schwann cells		Oligodendrocytes				
	(C)	Astrocytes	(D)	Microglia				
22.		ect the neurotransmitter from th	e follow	ving.	i	1	5	2
	CO STREET, STATE	Creatinine	(B)	Glucagon				
	(C)	Saponin	(D)	Acetylcholine				

23.	Which lobe in the brain is associated with vision? (A) Parietal (B) Occipital (C) Temporal (D) Frontal	1	1	-5	2
24.	Which cell is involved in immunological surveillance? (A) Rod cells (B) NK cells (C) Bone cells (D) RBC cells	1	1	5	2
25.	Immunoglobins (or) antibodies are produced from (A) T cell (B) Activated T cell (C) B cell (D) Activated B cell	1	1	5	- 2
$PART - B (5 \times 10 = 50 \text{ Marks})$				со	PO
26. a.	Answer ALL Questions Outline in detail about structure and function of eukaryotic cell with neat sketch.	10	3	1	1
	(OR)				
b.	Define cell cycle. Explain about mitosis cell division with neat sketch.	10	3 -	1	1
27. a.	27. a. Explain structure and function of DNA with neat diagram.			2	2
	(OR)				
b.	Describe in detail about stem cells and its applications.	10	3	2	2
28. a.	Outline in detail about factors affecting enzyme activity.	10	3	3	2
	(OR)				
b.	Explain in detail about photosynthesis with neat sketch.	10	3	3	2
29. a.	Describe the structure and function of flagellar motor with neat diagram.	10	3	4	2
	(OR)				
b.	Explain about different types of bioremediation.	10	3	4	2
30. a.	Outline about structure and function of glial cells with neat sketch.	10	3	5	2
b.	(OR) Describe in detail about immune response system with neat diagram.	10	3	5	2

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