

QUARTER-1 (UNIT 1+2+3)

## TOPICS:-

- Cell Biology
- Microbiology
- **Biological Molecules** Kingdom Animalia
- Type of transport that always involves carrier proteins: A) Diffusion

C) Facilitated transport

B) Osmosis

D) Active transport

- Which statement is not true of membrane phospholipids? Q.2
  - A) They have head and tail
  - B) They have hydrophilic heads
  - C) They have hydrophobic tails
  - D) They flop readily from one side of the membrane to the other
- Q.3 Polysome is formed by:
  - A) Several ribosomes attached to a single mRNA
  - B) Many ribosomes attached to a strand of endoplasmic reticulum
  - C) A ribosome with several subunits
  - D) Ribosomes attached to each other in a linear arrangement
- The main organelle involved in routing of newly synthesized proteins to their Q.4 destinations is:
  - A) Mitochondria

C) Vacuole

- B) Endoplasmic reticulum
- D) Chloroplast
- An organelle shows highly folded laner wall. Ultrasonic disruption of the organelle yields fragments, which can synthesize ATP. The organelle is:
  - A) Mitochondrion

C) Ribosome

B) Chloroplast

- D) Centrosome
- Lysosomes are known as suicidal bags because of:
  - A) Catalytic activity

C) Isomerases

- B) Hydrolytic enzymes
- D) Ligases
- Granular E.R. differs from smooth E.R: Q.7
  - A) In having ribosome on its surface
- C) In playing role in steroid synthesis
- B) In detoxifying drugs
- D) In storing calcium ions
- Centrosome is responsible for: Q.8
  - A) Cell wall formation
- C) Initiation of cell division
- B) Cell plate formation
- D) Inhibition of cell division
- All are differences of prokaryotic cell from eukaryotic cell except: Q.9
  - A) Circular chromosomal DNA
- C) Have plasmid

B) Large sized cells

- D) Transcription in cytoplasm
- Q.10 A crista is mainly made up of:
  - A) Glycoproteins

C) Lipoproteins

B) Glycolipids

- D) Phospholipids
- O.11 All of the following processes take place in mitochondria except:

  - A) Anaerobic respiration B) Aerobic respiration
- C) Oxidative phosphorylation D) Fatty acid metabolism
- Q.12 It is not a function of SER:
  - A) Storage of Ca\*2

C) Mechanical support

B) Protein synthesis

- D) Detoxification
- Q.13 Which of the following is a complex of globular protein with non-protein accous material?
  - A) Collagen

C) Haemoglobin

D) Can albumen

D) Fibrinogen

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	Q.D	In a genetic engineering experiment a	nece or	1			
		In a genetic engineering experiment a piece of Distribution of transcribed and translated into protein.  It a genetic engineering experiment a piece of Distribution of the protein of the					
		How many amino acids would be required?  C) 3000					
		110W many amino actus	C) 3000				
		A) 500	D) 4500				
		B) 1000 The ring form of fructose is called:	Common Co				
	Q.15	The ring form of fructose is	C) Fructofuranose				
		A) Fructopyranose	D) Ribofuranose				
		B) Fructocellulose					
	Q.16	The only carbohydrate that contains a	C) Galactose				
		A) Cellulose	D) Amylopectin				
		B) Chitin					
	Q.17	Number of peptide bonds in an insulin	C) 49				
		A) 51	D) 2				
		B) 50					
	Q.18	Histone proteins are positively charged	I due to:				
	_	Acidic amino acids	C) Neutral amino acids				
		B) Basic amino acids	D) Amphoteric amino acids				
	Q.19	.19 Which type of bond is common in all proteins?					
		A) Hydrogen bond	C) Ionic bond				
		B) Pantide bond	D) Disulphide linkage				
	Q.20	Which of the following is common between	een Lock and Key model and Induce Fit model?				
	•	A) Enzymes are specific in nature					
		B) Enzymes are rigid structures showing	no change during reaction				
		C) Enzymes structure is changed during reaction					
		D) Enzyme acts as template					
	Q.21						
	Q.21	enzyme two times, rate of reaction will:					
		A) Increase four times	C) Increase two times				
		B) Increase three times	D) Remain constant				
	0.22						
	Q.4	Q.22 Which form of carbohydrate is found in DNA?  A) Aldo pentose C) Aldo hexose					
		B) Keto pentose	D) Keto hexose				
	0.22		The state of the s				
	Q.23	Q.23 In the absence of, substrate molecule will not fit correctly at active and no catalytic activity will occur.					
			C) Cofactor				
		A) Prosthetic group					
		B) Coenzyme	D) Inhibitor				
	Q.24		reaction during formation of ester linkage?				
		A) Alcohol group	C) Amino group				
		B) Carboxyl group	D) Hydrocarbon group	•			
	Q.25	Lipids carrying polar head and non-p	olar tail are:				
		A) Glycolipids	C) Phospholipids.				
		B) Nucleolipids	D) Triglycerides				
	Q.26	•	surface in tertiary structure in aqueous solution?				
	-	A) Essential amino acids					
		B) Hydrophilic amino acids	C) Hydrophobic amino acids				
			D) Non essential amino acids				
	4.41	These are reactive parts of amino acid					
		A) Alpha carbon & Hydrogen	C) Amino & Carboxyl group				
	0.20	B) Carboxyl group & R group	D) Only R group				
	Q.28	It is an example of fibrous protein;					

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0.20	Which structural level is most significant	in globular proteins?
Q.29	A) Primary	C) Quaternary
	B) Secondary	D) Tertiary
0.70	The cofactor usually acts as "bridge" bety	veen:
Q.30	A) Enzyme & substrate	C) Cocnzyme & substrate
	B) Enzyme & product	D) Activator & substrate
0.31	The state of the s	
Q.31	A) Polypeptides	C) Globular proteins
	B) Proteins	D) Fibrous proteins
Q.32		
Q.52	A) Single stranded RNA	C) Double stranded RNA
	B) Single stranded DNA	D) Double stranded DNA
Q.33		
Que	A) Viruses	C) Archaeobacteria
	B) Eubacteria	D) Amoeba
Q.34		ia?
	A) Genetic recombinations	C) Ability to respire aerobically
	B) Fimbriae	D) Mitotic cell division
Q.35	Bacterial nucleoid is mainly involved in:	
•	A) Metabolism	C) Genetic engineering
	B) Drug resistance	D) Insect resistance
Q.36		
	A) Heterotrophs	C) Saprotrophs
	B) Autotrophs	D) Parasites
Q.37	Literal meaning of antibiotics is:	STATE OF THE STATE
	A) Against bacteria	C) Against life
	B) Against antigens	D) Against biomass
Q.38		ing life cycle of Rhizopus are mostly:
	A) Diploid	C) Triploid
	B) Haploid	D) Polyploid
Q.39	Rhizopus belongs to:	
	A) Sac fungi	C) Conjugating fungi
	B) Imperfect fungi	D) Club fungi
Q.40	How many tail fibers are present in T4 pl	
	A) 2	C) 4
	B) 6	D) 8
Q.41	Phage that becomes part of bacterial chro	omosome is called:
	A) Lytic phage	C) Lysogenic phage
•	B) Prophage	D) Virulent phage
Q.42	It is commonly present in both Gram pos	itive and Gram negative bacterial cell wall:
	A) Lipopolysaccharides	C) Peptidoglycan
	B) Teichoic acids	D) Lipoproteins
Q.43	Bacteria that get their food from humus	are:
	A) Saprophytic	C) Parasitic
	B) Photosynthetic	D) Chemosynthetic
Q.44	They belong to group paramyxoviruses:	
	A) HIV	C) Poliovirus
	B) Measles virus	D) Influenza virus
Q.45	All bacterial cells have all of the followin	
2	A) Cell membrane	C) Chromatin body
	rij wen memorane	7/7



	C.	March 10 to the state of				
Q.40	6 The playma membrane and	Nine and and and				
	A) Cytoplasm					
	B) Protoplasm	C) Nucleoplasm				
Q.4°	7 It is a yeast that are	The state				
	<ul> <li>It is a yeast that grows on shower of</li> <li>A) Saccharomyces</li> </ul>	curtains and moist places:				
- 27	B) Candida	C) Aspergillus				
Q.49		D) Bt. 1				
	Q.48 A multicellular eukaryotic heterotroph whose cells lack cell wall is a/an:  A) Protist					
	B) Virus	C) Animal				
Q.49		D) Plant				
4.4	up of Animalia?					
	A) Protozoa B) Parazoa	C) Metazoa				
0.5		D) Eumetazoa				
411	the chinal straining to echinoderma	ta do not have:				
	ry radial symmetry	C) Indeterminate cleavage				
0.5	B) Diploblastic organization	D) Triploblastic organization				
411	A) Ectoderm					
	B) Mesoderm	C) Endoderm				
0.5		D) Choanoderm				
٠.	A) Flatworms					
	B) Roundworms	C) Segmented worms				
Q.5.		D) Sponges				
	A) It develops from blastocoels of the	embers				
	B) Externally it is bounded by the mus	cles and internally by cuticle of intestine				
	digestive tube					
	D) All A, B, C					
Q.54	Q.54 Virtually all biologists agree that animals evolved from:					
	A) Parazoans	C) Poriferans				
	B) Protoctists	D) Prokaryotes	٠			
Q.55						
	A) Hooks	C) Suckers •				
	B) Stylets	D) Rhizoids				
Q.56	6 Arthropods have: A) Coclom	C) Pseudocoel				
	B) Blastocoel	D) Haemocoel				
Q.57	A) Genmules	C) Hormogonia				
	B) Proglottids	D) Appendages				
	and the second second second second second	ough due to its burrowing activity is:				
Q.58		C) Stylaria				
	A) Nereis	D) Hirudo				
	B) Pheretima					
Q.59	Nervous system of insects consists of:					
	A) Paired ganglia with double ventral nerve cord     B) Paired ganglia with double dorsal nerve cord					
	Brain in head and a spinal cord runni	ing across body				
	C) Brain in head and a spinar cord running	rve cord				
	D) Simple brain with a single ventral ne	ing of tracheal tubules, first time appeared in				
0.60	A proper respiratory system, consist					
	which group?	C) Nematodos				