Examination: M.Sc. Biochemistry and Molecular Biology
Section 1 - Section 1
Question No.1 4.00
Bookmark ☐ Study the following information carefully and answer the question below it:
Aasha, Bhuvnesh,Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting around a circle, facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Farhan. Charan is not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. Himesh never sits next to Ganesh.
Which is the position of Farhan with respect to Ekta? © Third to the left
© Fourth to the right
© Second to the right
○ Sixth to the left
Question No.2 4.00 Bookmark
Electrical impulses are generated in which part of the heart
© Purkinje fibres © Sinoatrial node
© Atrioventricular node
© Left ventricle
C Leit veriurcie
Question No.3
Bookmark
Fill in the blank with the correct form of the verb. The International Women's Day with great enthusiasm by our university last month.
© celebrated
○ was celebrated
ℂ is celebrated
○ has celebrated
Question No.4 4.00 Bookmark
If 9 men working 6 hours a day can do a work in 88 days. Then 6 men working 8 hours a day can do it in how many days? © 89 © 99
○ 97
ℂ 95
Ougstion No 5
Question No.5 4.00 Bookmark
If the molar amount of G in a DNA is 20%, what is the molar amount of T in the sample?
ℂ 20%
○ 30%
€ 60%
○ 40%
l.

Question No.6	4.00
	Bookmark
Corpus luteum secretes which hormone	
© Oestrogen © Progesterone	
© Follicle stimulating hormone	
© Luteinizing hormone	
Edicinizing normanic	
Question No.7	4.00
Which is the largest protein in human body	Bookmark
© Sodium potassium transport kinase	
O Titin	
© myosin	
O Insulin	
Question No.8	4.00
There were five massive extinctions in the history of earth. In which extinction non-avian dinc	Bookmark
went extinct	Jaula
○ Triassic	
○ Ordovician	
○ Cretaceous	
© Permian	
	4.00
Question No.9	4.00 Bookmark □
	4.00 Bookmark
Question No.9	
Question No.9 A good producer of citric acid is:	
Question No.9 A good producer of citric acid is: C Aspergillus	
Question No.9 A good producer of citric acid is: Aspergillus Clostridium	
Question No.9 A good producer of citric acid is:	Bookmark
Question No.9 A good producer of citric acid is:	
Question No.9 A good producer of citric acid is:	Bookmark 4.00 Bookmark
Question No.9 A good producer of citric acid is:	Bookmark 4.00 Bookmark
Question No.9 A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples.	Bookmark 4.00 Bookmark
Question No.9 A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. Chartered Accountant likes green colour and his wife is a teacher.	Bookmark 4.00 Bookmark
Question No.9 A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. Chartered Accountant likes green colour and his wife is a teacher. Manisha is the mother-in-law of Sunita and she likes orange colour.	Bookmark 4.00 Bookmark
Question No.9 A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. Chartered Accountant likes green colour and his wife is a teacher.	Bookmark ☐ 4.00 Bookmark ☐ rofessions
A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. Chartered Accountant likes green colour and his wife is a teacher. Manisha is the mother-in-law of Sunita and she likes orange colour. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes which is the grand daughter of Manisha and she likes blue colour.	Bookmark ☐ 4.00 Bookmark ☐ rofessions
A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. Chartered Accountant likes green colour and his wife is a teacher. Manisha is the mother-in-law of Sunita and she likes orange colour. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.	Bookmark ☐ 4.00 Bookmark ☐ rofessions
Question No.9 A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. Chartered Accountant likes green colour and his wife is a teacher. Manisha is the mother-in-law of Sunita and she likes orange colour. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes whit Which Colour is liked by the Sunita?	Bookmark ☐ 4.00 Bookmark ☐ rofessions
Question No.9 A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. I. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. Chartered Accountant likes green colour and his wife is a teacher. Manisha is the mother-in-law of Sunita and she likes orange colour. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes whith Which Colour is liked by the Sunita? Cannot be determined	Bookmark ☐ 4.00 Bookmark ☐ rofessions
A good producer of citric acid is: Aspergillus Clostridium Pseudomonas Saccharomyces Question No.10 Based on the information given answer the following question. In a family of six persons, there are people from three generations. Each has separate prand they like different colours. There are two couples. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. Chartered Accountant likes green colour and his wife is a teacher. Manisha is the mother-in-law of Sunita and she likes orange colour. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes whith Which Colour is liked by the Sunita? Cannot be determined Black	Bookmark ☐ 4.00 Bookmark ☐ rofessions

Question No.11	4.00 Bookmark
Clover leaf structure precisely describes which biomolecule in the following Si-RNA	<u>-</u>
© t-RNA	
© Ribosomes	
© Ti- plasmid	
V 11- piastiliu	
Question No.12	4.00 Bookmark
Which is called the ripening hormone	Dookinark [
ℂ cytokinins	
○ Gibberellins	
© Ethylene	
© Auxins	
- Adails	
Question No.13	4.00
	Bookmark □
Which theory aptly describes the existence of chloroplast and mitochondria.	
© Endosymbiosis theory	
© Knudsons hypothesis.	
© Evolution theory	
© Cell theory	
Question No.14	4.00 Bookmark □
Question No.14 Bacterial cell wall components are recognized by C TLR4	4.00 Bookmark
Bacterial cell wall components are recognized by	
Bacterial cell wall components are recognized by C TLR4 C CLR's	
Bacterial cell wall components are recognized by © TLR4	
Bacterial cell wall components are recognized by C TLR4 C CLR's C TLR3 C NLR's	Bookmark □
Bacterial cell wall components are recognized by C TLR4 C CLR's C TLR3	Bookmark 4.00
Bacterial cell wall components are recognized by C TLR4 C CLR's NLR's NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter	Bookmark ☐ 4.00 Bookmark ✓
Bacterial cell wall components are recognized by CTLR4 CCLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition?	Bookmark ☐ 4.00 Bookmark ✓
Bacterial cell wall components are recognized by C TLR4 C CLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B	Bookmark ☐ 4.00 Bookmark ☑
Bacterial cell wall components are recognized by CTLR4 CCLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B B'	Bookmark ☐ 4.00 Bookmark ☑
Bacterial cell wall components are recognized by CTLR4 CCLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B B' Alpha	Bookmark ☐ 4.00 Bookmark ☑
Bacterial cell wall components are recognized by CTLR4 CCLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B B'	Bookmark ☐ 4.00 Bookmark ✓
Bacterial cell wall components are recognized by CTLR4 CCLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B B' Alpha	4.00 Bookmark 4.00 4.00
Bacterial cell wall components are recognized by CIR4 CIR's TIR3 NIR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B' alpha sigma Question No.16	4.00 Bookmark
Bacterial cell wall components are recognized by C TLR4 C CLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B' alpha sigma Question No.16 Choose the synonym of the italicized word.	4.00 Bookmark 4.00 4.00
Bacterial cell wall components are recognized by C TLR4 C CLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B BCB' C alpha Sigma Question No.16 Choose the synonym of the italicized word. Some people are extremely fastidious in their choice of dress.	4.00 Bookmark 4.00 4.00
Bacterial cell wall components are recognized by TLR4 CLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B' alpha sigma Question No.16 Choose the synonym of the italicized word. Some people are extremely fastidious in their choice of dress. discriminating	4.00 Bookmark 4.00 4.00
Bacterial cell wall components are recognized by TLR4 CLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B' alpha sigma Question No.16 Choose the synonym of the italicized word. Some people are extremely fastidious in their choice of dress. discriminating pompous	4.00 Bookmark 4.00 4.00
Bacterial cell wall components are recognized by TLR4 CLR's TLR3 NLR's Question No.15 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? B B' alpha sigma Question No.16 Choose the synonym of the italicized word. Some people are extremely fastidious in their choice of dress. discriminating	4.00 Bookmark 4.00 4.00

Question No.17	4.00
Proteins tagged with mannose-6-phosphate are transported to:	Bookmark
© Lysosomes	
○ Golgi apparatus	
○ Plasma membrane	
ℂ Mitochondria	
Question No.18	4.00
Number of steps present in PCR are	Bookmark
© 3	
○ 4	
○ 2	
€ 6	
Question No.19	4.00
Which of the metabolite is common to respiration mediated breakdown of fats, carbohydrate proteins?	Bookmark ☐ es and
C Pyruvic acid	
C α–Keto-glutarate	
Oxaloacetic acid	
○ Acetyl-CoA	
Occaption No 20	
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at and to	4.00 Bookmark □
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at at and	Bookmark □ 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at and to	Bookmark
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at and to	Bookmark □ 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at and to Question No.21 Which of the following cofactors is involved in amino group transfer?	Bookmark □ 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at and to Question No.21 Which of the following cofactors is involved in amino group transfer? Biotin	Bookmark □ 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. c from at and to to Question No.21 Which of the following cofactors is involved in amino group transfer? Biotin COA	Bookmark □ 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at at and to to Question No.21 Which of the following cofactors is involved in amino group transfer? Biotin CoA NAD Pyridoxal Phosphate	Bookmark □ 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at and to Question No.21 Which of the following cofactors is involved in amino group transfer? Biotin CoA NAD Pyridoxal Phosphate Question No.22	Bookmark ☐ 4.00 Bookmark ☐
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. from at and to to Question No.21 Which of the following cofactors is involved in amino group transfer? Biotin CoA NAD Pyridoxal Phosphate Question No.22 The method of mining silver varies from place to place,?	4.00 Bookmark 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. ofrom at and to to Question No.21 Which of the following cofactors is involved in amino group transfer? Biotin CoA NAD Pyridoxal Phosphate Question No.22 The method of mining silver varies from place to place,? is it?	4.00 Bookmark 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. ofrom at and to Cuestion No.21 Which of the following cofactors is involved in amino group transfer? Biotin CoA NAD Pyridoxal Phosphate Question No.22 The method of mining silver varies from place to place,? is it? doesn't it?	4.00 Bookmark 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. ofrom at and to to Question No.21 Which of the following cofactors is involved in amino group transfer? Biotin CoA NAD Pyridoxal Phosphate Question No.22 The method of mining silver varies from place to place,? is it?	4.00 Bookmark 4.00
Choose the most appropriate preposition to fill the blank: The mathematics exam will be held between 24pm. ofrom at at and to to Cuestion No.21 Which of the following cofactors is involved in amino group transfer? Biotin CoA NAD Pyridoxal Phosphate Cuestion No.22 The method of mining silver varies from place to place,? is it? doesn't it? does it?	4.00 Bookmark 4.00

Question No.23	4.00
Study the following information carefully and answer the question below it	Bookmark □
In a family, Isha is the granddaughter of Asha. Deepa is the mother of Hansa. Charan is the Anand. Radha is the mother ofIsha. Deepa is the sister of Vinod and Charan. Nagesh has to children, Gita and Hansa. Emesh is the only grandson in the family. Charan is not married. For the daughter-in-law of Anand.	WO
Who is married to Radha? Nagesh Charan Vinod Anand	
Question No.24	4.00
Which peptide in the following peptides will be hydrolyzed by trypsin? Gly-Met-Arg Phe-Met-Pro Pro-Arg-Met Ala-Phe-Gly	Bookmark <u></u>
 Question No.25 Which of the following subunits of the bacterial RNA polymerase is responsible for promoter recognition? alpha B' Sigma B 	4.00 Bookmark ☑
Question No.26 EDTA is chelating agent which chelates O Divalent anions Monovalent anions Monovalent cations O Divalent cations	4.00 Bookmark ☐
Question No.27	4.00
Leventhal's paradox represents concept of Enzyme kinetics Pharmacodynamics Drug kinetics Protein folding	Bookmark □

Question No.28	4.00
Cadherin's are adhesion molecules involved in tight junctions of the cells. They form the tight through strand switching method. List the necessary criteria needed tight junction formation cadherins	
C Availability of Ca ²⁺ ions in micro molar concentration with conserved Ala2 residue	
Availability of Mg ²⁺ ions ions in micro molar concentration with conserved Trp2 res	
Availability of Ca ²⁺ ions in micro molar concentration with conserved Trp2 residue	
Availability of Mg ²⁺ ions ions in micro molar concentration with conserved Ala2 res	
Question No.29	4.00 Bookmark
1, 4, 27, 16, ?, 36, 343	Bookmank p
O 72	
O 25	
O 132	
O 125	
Question No.30	4.00
Which form is amino nitrogen excreted from the body of birds and reptiles? Ammonia	Bookmark □
O Urea	
O All of them	
○ Uric acid	
	1.00
Question No.31	4.00
Question No.31 Which metal is used in galvanization process	4.00 Bookmark □
Which metal is used in galvanization process	
Which metal is used in galvanization process C Zinc C Aluminium C Vanadium	
Which metal is used in galvanization process C Zinc Aluminium	
Which metal is used in galvanization process C Zinc C Aluminium C Vanadium	
Which metal is used in galvanization process	Bookmark ☐ 4.00 Bookmark ☐
Which metal is used in galvanization process	Bookmark ☐ 4.00 Bookmark ☐ e abnormal.
Which metal is used in galvanization process	Bookmark ☐ 4.00 Bookmark ☐ e abnormal.
Which metal is used in galvanization process	Bookmark ☐ 4.00 Bookmark ☐ e abnormal.
Which metal is used in galvanization process C Zinc Aluminium Vanadium Ni-Chrome Question No.32 A researcher came upon a young herbaceous plant which was very brittle. He found it to b Mostly, all young herbaceous plants have a flexible stem. He speculated some hypothesis brittle stem. Help the researcher to find the correct hypothesis. C Lignification of Aerenchyma Gain of function mutation in Chlorenchymal cells	Bookmark ☐ 4.00 Bookmark ☐ e abnormal.
Which metal is used in galvanization process Zinc Aluminium Vanadium Ni-Chrome Question No.32 A researcher came upon a young herbaceous plant which was very brittle. He found it to b Mostly, all young herbaceous plants have a flexible stem. He speculated some hypothesis brittle stem. Help the researcher to find the correct hypothesis. Lignification of Aerenchyma Gain of function mutation in Chlorenchymal cells Deletion mutation of Collenchyma	Bookmark ☐ 4.00 Bookmark ☐ e abnormal.
Which metal is used in galvanization process C Zinc Aluminium Vanadium Ni-Chrome Question No.32 A researcher came upon a young herbaceous plant which was very brittle. He found it to b Mostly, all young herbaceous plants have a flexible stem. He speculated some hypothesis brittle stem. Help the researcher to find the correct hypothesis. C Lignification of Aerenchyma Gain of function mutation in Chlorenchymal cells	Bookmark ☐ 4.00 Bookmark ☐ e abnormal.
Which metal is used in galvanization process Zinc Aluminium Vanadium Ni-Chrome Question No.32 A researcher came upon a young herbaceous plant which was very brittle. He found it to b Mostly, all young herbaceous plants have a flexible stem. He speculated some hypothesis brittle stem. Help the researcher to find the correct hypothesis. Lignification of Aerenchyma Gain of function mutation in Chlorenchymal cells Deletion mutation of Collenchyma	4.00 Bookmark □ e abnormal. for the
Which metal is used in galvanization process C Zinc Aluminium Vanadium Ni-Chrome Question No.32 A researcher came upon a young herbaceous plant which was very brittle. He found it to b Mostly, all young herbaceous plants have a flexible stem. He speculated some hypothesis brittle stem. Help the researcher to find the correct hypothesis. Lignification of Aerenchyma Gain of function mutation in Chlorenchymal cells Deletion mutation of Collenchyma Striation of Parenchymal cells Question No.33	4.00 Bookmark □ e abnormal. for the
Which metal is used in galvanization process Cinc Aluminium Vanadium Ni-Chrome Question No.32 A researcher came upon a young herbaceous plant which was very brittle. He found it to b Mostly, all young herbaceous plants have a flexible stem. He speculated some hypothesis brittle stem. Help the researcher to find the correct hypothesis. Lignification of Aerenchyma Gain of function mutation in Chlorenchymal cells Deletion mutation of Collenchyma Striation of Parenchymal cells Question No.33 Repressor molecules bind to the:	4.00 Bookmark □ e abnormal. for the
Which metal is used in galvanization process C Zinc Aluminium Vanadium Ni-Chrome Question No.32 A researcher came upon a young herbaceous plant which was very brittle. He found it to b Mostly, all young herbaceous plants have a flexible stem. He speculated some hypothesis brittle stem. Help the researcher to find the correct hypothesis. Lignification of Aerenchyma Gain of function mutation in Chlorenchymal cells Deletion mutation of Collenchyma Striation of Parenchymal cells Question No.33	4.00 Bookmark □ e abnormal. for the
Which metal is used in galvanization process	4.00 Bookmark □ e abnormal. for the
Which metal is used in galvanization process	4.00 Bookmark □ e abnormal. for the

Question No.34 4.00 **Bookmark** □ In an in vitro protein translation-translocation system, the following components are present besides all protein synthesis machinery: SRP and SRP-receptor but no microsomes. What will be your observation? No polypeptide will be formed C Complete polypeptide without signal peptide will be formed C Polypeptide with elongation blocked at 70-100 amino acids will be formed C Complete polypeptide with signal peptide will be formed **Question No.35** 4.00 Bookmark □ A 40 year old alcoholic comes in with severe pain in his big toe. You decide to administer Allopurinol to inhibit which of the following enzyme: Adenosine deaminase Thymidine kinase Adenine phosphoribosyl transferase Xanthine oxidase **Question No.36** 4.00 Bookmark □ B D (1) (2)(3)(4) \circ 4 O 3 020.1 **Question No.37** 4.00 The enzyme responsible for continuing DNA replication in prokaryotes, once it is initiated is: O DNA polymerase I polymerase delta O DNA polymerase II O polymerase beta **Question No.38** 4.00 Which one among the following amino acids acts as neurotransmitter? Glutamic acid Alanine Aspartic acid

Tyrosine

Question No.39	4.00 Bookmark
In a certain enzyme catalyzed reaction performed with X amount of enzyme, the Km wa to be 2 nM. The reaction was repeated under the same conditions with 2X amount of enthat the substrate condition is still not limiting. What would you expect the Km to be?	s determined
C Cannot be calculated	
○ 1 nM	
© 2 nM	
O 4 nM	
Question No.40	4.00
Statements Russa are sare Sueles are sare	Bookmark □
Statements: Buses are cars. Cycles are cars Conclusion:	
I. Cars are buses	
II. Buses are Cycles	
C If only conclusion I follows	
○ If either I or II follows	
C If neither I nor II follows	
C If only conclusion II follows	
Question No.41	4.00
Study the following information carefully and answer the question below it (i) There is a persons- A, B, C, D and E (ii) One of them is manual scavenger, one is sweeper, one is one is human scarecrow and one is grave-digger (iii) Three of them – A, C and grave-tea to coffee and two of them – B and the watchman prefer coffee to tea (iv) The human and D and A are friends to one another but two of these prefer coffee to tea. (v) The ma	s watchman, ligger prefer n scarecrow
scavenger is C's brother Which of the following groups includes a person who likes tea grave-digger? © BD	
O DE	
O BCE	
None of the above	
Question No.42	4.00
	Bookmark □
The enzyme used in disruption of bacterial cell wall is:	
© Lactase	
O Hemicellulase	
© Lysozyme	
C Lipase	
Question No.43	4.00 Bookmark □
The human liver cannot produce	
C Ketone bodies from fatty acids	
© glucose from fatty acids	
○ Glucose from amino acids	
○ Fatty acids from glucose	

Question No.44	4.00
In the complement system, which pathway uses Factor B and D for activation of C3 conve	Bookmark ☐
© Classical	ertase
© Lectin	
○ Alternate	
C A & B	
Question No.45	4.00
	Bookmark
Which of the following proteins is called docking proteins?	
C Antibodies	
SRP-receptorsInsulin receptors	
© Carrier proteins	
Question No.46	4.00
Two important functions of peroxisomes in plants are	Bookmark 🔽
© 1. Secondary metabolite production.	
Maintain turgor pressure.	
 1. Protein synthesis in chloroplast. 	
2. Colouring of flowers1. Conversion of stored fatty acids to carbohydrates in seeds.	
Photorespiration in leaves	
O 1. Acts as ion channels	
Helps in stomatal movement	
Question No.47	4.00
	4.00 Bookmark
Question No.47 Tiny air sacs of the lungs which allow for rapid gaseous exchange are © Parietal cells	
Tiny air sacs of the lungs which allow for rapid gaseous exchange are	
Tiny air sacs of the lungs which allow for rapid gaseous exchange are © Parietal cells	
Tiny air sacs of the lungs which allow for rapid gaseous exchange are O Parietal cells O Microglia	
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus	Bookmark <u></u> □
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis	Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious.	Bookmark <u></u> □
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions:	Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious	Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions:	Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious II. Generally People are not humble	Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious II. Generally People are not humble If only assumption II is implicit	Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious II. Generally People are not humble If only assumption II is implicit If only assumption I is implicit	Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious II. Generally People are not humble If only assumption I is implicit If only assumption I is implicit If only assumption I is implicit If both I and II are implicit	Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious II. Generally People are not humble If only assumption II is implicit If only assumption I is implicit If both I and II are implicit If neither I nor II is implicit If neither I nor II is implicit	Bookmark ☐ 4.00 Bookmark ☐
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: Many people are humble after being victorious Generally People are not humble for only assumption II is implicit for only assumption I is implicit for heither I nor II is implicit for the implicit f	Bookmark
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious II. Generally People are not humble If only assumption II is implicit If only assumption I is implicit If both I and II are implicit If neither I nor II is implicit If neither I nor II is implicit Cuestion No.49 N-Ethylmaleimide will react with which of the following functional group of the protein: Carboxyl group	Bookmark
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious II. Generally People are not humble If only assumption I is implicit If only assumption I is implicit If neither I nor II is implicit If neither I nor II is implicit Carboxyl group Sulfhydryl group Sulfhydryl group	Bookmark 4.00 Bookmark 4.00
Tiny air sacs of the lungs which allow for rapid gaseous exchange are Parietal cells Microglia Epiglottis Alveolus Question No.48 Statement: Be humble even after being victorious. Assumptions: I. Many people are humble after being victorious II. Generally People are not humble If only assumption II is implicit If only assumption I is implicit If both I and II are implicit If neither I nor II is implicit If neither I nor II is implicit Cuestion No.49 N-Ethylmaleimide will react with which of the following functional group of the protein: Carboxyl group	Bookmark 4.00 Bookmark 4.00

	4.00
The most abundant protein in the biosphere is	Bookmark
© Rubisco	
© Collagen	
O IgG	
© Albumin	
Question No.51	4.00
Very search de 24.4 a II the area of a 4.4 become and	Bookmark
You wouldn't tell them what happened,	
© wouldn't you?	
© would you?	
C isn't it?	
○ won't you?	
Question No.52	4.00
Quodisii Noida	Bookmark ✓
Cystic fibrosis transmembrane conductance regulator (CFTR), mutation in this gene is	
cystic fibrosis. Identify the normal function of this gene	
 Functions as a cAMP- and ATP-regulated Na+ channel 	
 Functions as a cAMP- and ATP-regulated CI- channel 	
 Functions as a JAK STAT kinase regulated CI- channel 	
C Functions as a endocrine regulated CI- channel	
Question No.53	4.00
Quosiion No.00	Bookmark
Substrate level phosphorylation is catalyzed by	•
Succinate dehydrogenase	
C Succinate dehydrogenase	
Succinate dehydrogenaseHexokinase	
Succinate dehydrogenaseHexokinasePhosphoglycerate kinase	
Succinate dehydrogenaseHexokinasePhosphoglycerate kinase	4.00
C Succinate dehydrogenase C Hexokinase C Phosphoglycerate kinase C Phosphofructokinase Question No.54	4.00 Bookmark □
C Succinate dehydrogenase C Hexokinase C Phosphoglycerate kinase C Phosphofructokinase Question No.54 Which protein is majorly used as carrier protein in conjugate vaccines	
C Succinate dehydrogenase C Hexokinase C Phosphoglycerate kinase C Phosphofructokinase Question No.54 Which protein is majorly used as carrier protein in conjugate vaccines C Flagellin	
C Succinate dehydrogenase Hexokinase Phosphoglycerate kinase Phosphofructokinase Question No.54 Which protein is majorly used as carrier protein in conjugate vaccines Flagellin Diphtheria Toxin CRM197	
C Succinate dehydrogenase Hexokinase Phosphoglycerate kinase Phosphofructokinase Question No.54 Which protein is majorly used as carrier protein in conjugate vaccines Flagellin Diphtheria Toxin CRM197 C Collagenase.	
C Succinate dehydrogenase Hexokinase Phosphoglycerate kinase Phosphofructokinase Question No.54 Which protein is majorly used as carrier protein in conjugate vaccines Flagellin Diphtheria Toxin CRM197	
C Succinate dehydrogenase Hexokinase Phosphoglycerate kinase Phosphofructokinase Question No.54 Which protein is majorly used as carrier protein in conjugate vaccines Flagellin Diphtheria Toxin CRM197 C Collagenase.	
C Succinate dehydrogenase Hexokinase Phosphoglycerate kinase Phosphofructokinase Question No.54 Which protein is majorly used as carrier protein in conjugate vaccines Flagellin Diphtheria Toxin CRM197 C Collagenase.	

Antibiotics such as Ciprofloxacin and Fluoroquinolones work by inhibiting a specific enzyme is normally necessary to relieve torsional strain that is caused by the unwinding What is the name of this enzyme? O Primase O Single-stranded binding protein O Topoisomerase (DNA Gyrase) O DNA ligase	
Question No.56 Which is the major building block of agrochemical and pharmaceautical products Furan Pyrrole Thiophenes Pyridines	4.00 Bookmark ⊡
Question No.57 For passive vaccination, which antibody type will be most appropriate: © Single chain antibody © Monoclonal antibody © Both Polyclonal and monoclonal © Polyclonal antibody	4.00 Bookmark □
Question No.58 UDP-Gal/UMP or GDP-Mannose/GDP antiport is present in the membrane of: C Lysosome Mitochondria Golgi Apparatus ER	4.00 Bookmark
Question No.59 Sunil likes chocolates very much,? o does he isn't it? is it? doesn't he?	4.00 Bookmark
Question No.60 Which is known as artificial cell/membrane? C Virosome C Glyoxisome Nanosome C Liposome	4.00 Bookmark ☑

Question No.61 4.00
In the following question, the first two words (given in italics) have a definite relationship. Choose one word out of the given four alternatives which will fill the blank space and showthe same relationship with the third word as between the first two.
Latex is to Rubber as Flax is to?
୍ଦ Silk ୍ଦ Linen ୍ଦ Jute
Question No.62 4.00 Bookmark □
Semi conservative replication was proposed by C Meselson & Stahl
C Jacques Monod & Joshua Lederberg
○ Watson & Crick○ Khorana & Nirenberg
Question No.63 4.00
In which phase of the cell cycle, the cell irreversibly commits itself to the cycle ○ M checkpoint
○ G2 ○ G1
o s
Question No.64 4.00
An eukaryotic organism lacks the importin gene, which is responsible for protein import through the nuclear membrane. There is microbial infection in the organism, triggering one of the major nuclear inducible gene cascade. What will be the outcome © The downstream signalling pathway will not be activated.
The downstream signalling will be activated but the protein is not imported in to nuclear membrane.
The downstream signalling will not be activated but the protein is imported into the nuclear membrane
○ The downstream signalling will be activated and protein is imported through passive transport
Question No.65
Bookmark ☐ Trypsin specifically recognizes
C C terminal end of Arginine and lysine
N terminal end of Arginine and lysine N terminal end of Arginine and leucine
C C terminal end of Arginine and leucine
Question No.66 4.00
Bookmark ☐ Which of the following drugs causes the dissolution of the Golgi apparatus with ER.
© puromycin
○ Brefeldin A ○ chloroquine
© flycomycin

Question No.67	4.00
	Bookmark
Which subunit of prokaryotic DNA Pol III is responsible for proof reading mechanism	
© Beta	
C Epsilon	
○ Alpha	
○ Delta	
Question No.68	4.00
	Bookmark
Which of the following organelles has membrane which is unusually permeable to inorgan low molecular wt. substrate?	ic ions and
© ER	
C Lysosomes	
© Peroxisomes	
○ Golgi apparatus	
Question No.69	4.00
Dulmonom wain is major blood vascal which comics	Bookmark 🗆
Pulmonary vein is major blood vessel which carries	
© deoxygenated blood from the lungs to the heart	
oxygenated blood from the lungs to the heart	
oxygenated blood from the heart to the lungs	
C deoxygenated blood from the heart to the lungs	
O (N TO	1.00
Question No.70	4.00
Which of the following does not have introns?	Bookmark
© Non-processed pseudo genes	
© Primary RNA transcript	
C Processed mRNA	
O DNA	
Question No.71	4.00
Which is the rate limiting on time in almost rais	Bookmark □
Which is the rate limiting enzyme in glycolysis C Aldolase	
© Pyruvate kinase	
© Phosphofructokinase	
C Hexokinase	
Overtion No. 70	
Question No.72	4.00
The site for synthesis for plasmalogens is	Bookmark □
© ER	
C Borovigarea	
© Peroxisome	
○ Mitochondria	

Question No.73	4.00
N//: 1	Bookmark □
Which metal is coated to the specimen before using in SEM.	
C Zirconium	
○ Gallium	
○ Gadolinium	
© Gold	
Question No.74	4.00
O anima a manta a sana harra O anamanima at a maina a si da insita a atira a tita di anaman	Bookmark □
Serine proteases have 3 prominent amino acids in its active site, they are	
© Valine, serine, Histidine	
© Serine. Histidine, Aspartic acid	
© Serine, cysteine, aspartic acid.	
© Serine, leucine, lysine	
Question No.75	4.00
	Bookmark □
Choose the best antonym of the italicized word.	
The principal deprecated the attitude of some student-leaders.	
C tolerated	
C derided	
○ ignored	
○ appreciated	
Question No.76	4.00
	Bookmark □
SDS-PAGE seperates proteins on the basis of	
C Secondary Structure	
○ Charge	
C Zwitter ions	
C Molecular weight	
Question No.77	4.00
	Bookmark 🗆
Which among the immune cell majorly acts as antigen presenting cell	
○ IL-6	
O TNF-α cells	
© Macrophages	
○ Spleenocytes	

Question No.78	4.00
	Bookmark □
Which number replaces the question mark? 6 7 2	
13 9	
17 5	
0 3	
O 2	
O 1 O 4	
Question No.79	4.00 Bookmark □
Which is the infamous X-linked inheritence disease wich runs in the British Royal Family.	BOOKINAIK [
C Haemophilia	
Huntington's choreaDown syndrome	
O Multiple Sclerosis	
Overetion No 00	1.00
Question No.80	4.00 Bookmark □
Perfectly folded protein has	
Less entropy and less enthalpyLess entropy and high enthalpy	
High entropy and less enthalpy	
C High entropy and high enthalpy	
Question No.81	4.00
	Bookmark
The cell-mediated immunity inside the human body is carried out by: Thrombocytes	
© Erythrocytes	
○ B-Lymphocytes	
○ T-Lymphocytes	
Question No.82	4.00
	Bookmark □
Choose the correct meaning of the italicized idiom. The police cordoned off the area after the explosion.	
○ filled the whole area	
C checked everyone in the area	
 ○ did not allow anyone to leave the area ○ isolated the area 	
U ISOIAIEU IIIE AIEA	
Question No.83	4.00
Which of the following amine acide is synthesized directly from TCA avale intermediate?	Bookmark ✓
Which of the following amino acids is synthesized directly from TCA cycle intermediate? © serine	
○ aspartic acid	
© alanine	
○ cysteine	

Question No.84	4.00 Bookmark
Lactose consists of	Dookinark [_
○ Glucose + Glucose	
○ Mannose + Glucose	
○ Galactose + Glucose	
○ Glucose + Fructose	
Question No.85	4.00
	Bookmark □
Which amino acid from the following amino acid residues would you expect to find on the ins	side of a
typical globular protein molecule in solution at pH 7? © Val	
O Glu	
C His	
C Asp	
€ Asp	
Question No.86	4.00
Which the recognition site for ribecomes in proken atio mPNA	Bookmark
Which the recognition site for ribosomes in prokaryotic mRNA C Shine dalgarno sequence	
© Poly A site	
© TATA box	
© CpG site	
S ope one	
Question No.87	4.00
DNA damage in the cell can be analyzed using	Bookmark □
C Comet assay	
© Bradford assay	
© Nanodrop	
° RAPD	
Question No.88	4.00 Bookmark □
Muscle cells differ from nerve cells because they	
O use different genetic codes	
c express different genes	
C contain different genes	
C have unique ribosomes	
Question No.89	4.00
Which of the following graphical plots would provide you the number of ligand binding sites in	Bookmark
hemoglobins?	•
○ Scatchard plot	
○ Hill's plot	
C Sigma plot	
○ Lineweaver-Burk plot	

Question No.90	4.00
Rifampicin is a RNA polymerase inihibtor which inibits the	Bookmark □
© rpoB subunit	
○ <i>rpoZ</i> subunit	
<i>rpoE</i> subunit	
○ <i>rpoD</i> subunit	
Question No.91	4.00 Bookmark
Which form of DNA is observed during transcription	BOOKIIIAI K
O rDNA	
O B - DNA	
C Z-DNA	
O A - DNA	
Question No.92	4.00
Question 140.02	Bookmark □
If black is called white, white is called red, red is called pink, pink is called green, green is c	alled blue,
what would be the colour of human blood? © Blue	
© Pink	
© White	
O Green	
Question No.93	4.00
Which cell is exclusively responsible for the formation of myelin sheath in Peripheral Nervou	Bookmark ☐
(PNS)	o cyclem
○ Microglia	
○ Astrocytes	
O Schwann cells	
Oligodendrocytes	
Question No.94	4.00
	Bookmark
The precursor of all N-linked oligosaccharide contains:	
Three glucose, eight mannose and three N-acetylglucosamine	
 Two glucose, nine mannose and three N-acetylglucosamine Three glucose, nine mannose and two N-acetylglucosamine 	
Two glucose, eight mannose and four N-acetylglucosamine	
1 Wo glacose, eight mannose and rour 14-acetyiglacosamine	
Question No.95	4.00
Which of the following defectors is involved in early and transfer?	Bookmark 🔽
Which of the following cofactors is involved in carboxyl transfer? © Biotin	
© Pyridoxal phosphate	
O TPP	
O FAD	

Question No.96	4.00
A toxin which has been treated with formalin is called:	Bookmark □
© Exotoxin	
© Toxoid	
O Antitoxin	
© Enterotoxin	
Question No.97	4.00
	Bookmark 🔽
Streptomycin inhibits the protein biosynthesis in	
○ fungal cells	
© Eukaryotic cells	
o prokaryotic cells	
C plant cells	
Question No.98	4.00
	Bookmark □
Tunicamycin inhibits the biosynthesis of:	
© Mucopolysaccharide	
© Glycolipids	
© Polysaccharides	
© Glycoproteins	
Question No.99	4.00
Which amino acids are popularly termed as helix breakers	Bookmark □
© Tyrosine and Tryptophan	
C Lysine and methionine	
© Valine and leucine	
© Proline and Glycine	
	100
Question No.100	4.00 Bookmark □
When isotopic glycine 15 NH $_2$ -CH $_2$ -COOH was administered in rats which nitrogen atom ir	
be labeled with ¹⁵ N?	·
© N-9	
O N-7	
O N-3	
O N-1	