

PREVIEW QUESTION BANK

Module Name : BET 2024-ENG
Exam Date : 20-Apr-2024 Batch : 15:00-18:00

| Sr. No. | Client Question ID | Question Body and Alternatives | Marks | Negative Marks | | | | | | | | | | |
|----------------------------------|-------------------------------------|---|--------|----------------|----------------------|----------------------------------|-----------------------------|-------------------------------------|----------------------------------|-------------------------------|------------------------|-------------------------------------|-----|------|
| Objective Question | | | | | | | | | | | | | | |
| 1 | 12001 | <p>Match items in List I with items in List II</p> <table border="0"> <tr> <td style="text-align: center;">List I</td> <td style="text-align: center;">List II</td> </tr> <tr> <td>(A) Mitochondria</td> <td>(I) Hydrogen Peroxide generation</td> </tr> <tr> <td>(B) Endoplasmic Reticulum</td> <td>(II) TCA cycle</td> </tr> <tr> <td>(C) Peroxisome</td> <td>(III) Degradation of proteins</td> </tr> <tr> <td>(D) Lysosomes</td> <td>(IV) Protein trafficking and export</td> </tr> </table> <p>Choose the correct answer from the options given below :</p> <p>(1) (A)-(IV), (B)-(II), (C)-(I), (D)-(III) (2) (A)-(I), (B)-(III), (C)-(IV), (D)-(II) (3) (A)-(II), (B)-(IV), (C)-(I), (D)-(III) (4) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | List I | List II | (A) Mitochondria | (I) Hydrogen Peroxide generation | (B) Endoplasmic Reticulum | (II) TCA cycle | (C) Peroxisome | (III) Degradation of proteins | (D) Lysosomes | (IV) Protein trafficking and export | 3.0 | 1.00 |
| List I | List II | | | | | | | | | | | | | |
| (A) Mitochondria | (I) Hydrogen Peroxide generation | | | | | | | | | | | | | |
| (B) Endoplasmic Reticulum | (II) TCA cycle | | | | | | | | | | | | | |
| (C) Peroxisome | (III) Degradation of proteins | | | | | | | | | | | | | |
| (D) Lysosomes | (IV) Protein trafficking and export | | | | | | | | | | | | | |
| Objective Question | | | | | | | | | | | | | | |
| 2 | 12002 | <p>Match items in List I with items in List II:</p> <table border="0"> <tr> <td style="text-align: center;">List I</td> <td style="text-align: center;">List II</td> </tr> <tr> <td>(A) pH of a solution</td> <td>(I) Fredrick Sanger</td> </tr> <tr> <td>(B) Base composition of DNA</td> <td>(II) Henderson-Hasselbalch equation</td> </tr> <tr> <td>(C) Molar absorption coefficient</td> <td>(III) Lambert-Beer law</td> </tr> <tr> <td>(D) Dideoxy sequencing</td> <td>(IV) Chargaff's principle</td> </tr> </table> <p>Choose the correct answer from the options given below :</p> <p>(1) (A)-(IV), (B)-(III), (C)-(I), (D)-(II) (2) (A)-(I), (B)-(II), (C)-(IV), (D)-(III) (3) (A)-(II), (B)-(IV), (C)-(III), (D)-(I) (4) (A)-(III), (B)-(I), (C)-(II), (D)-(IV)</p> <p>A1 : 1 A2 : 2 A3 : 3</p> | List I | List II | (A) pH of a solution | (I) Fredrick Sanger | (B) Base composition of DNA | (II) Henderson-Hasselbalch equation | (C) Molar absorption coefficient | (III) Lambert-Beer law | (D) Dideoxy sequencing | (IV) Chargaff's principle | 3.0 | 1.00 |
| List I | List II | | | | | | | | | | | | | |
| (A) pH of a solution | (I) Fredrick Sanger | | | | | | | | | | | | | |
| (B) Base composition of DNA | (II) Henderson-Hasselbalch equation | | | | | | | | | | | | | |
| (C) Molar absorption coefficient | (III) Lambert-Beer law | | | | | | | | | | | | | |
| (D) Dideoxy sequencing | (IV) Chargaff's principle | | | | | | | | | | | | | |

Adda247

Test Prime

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| | | | | | | | | | | | | | | |
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| | | A4 : 4 | | | | | | | | | | | | |
| Objective Question | | | | | | | | | | | | | | |
| 3 | 12003 | <p>Identify the INCORRECT statement about mitochondria</p> <p>(1) Its number increases by fission</p> <p>(2) Defective mitochondria are removed by a process called mitophagy</p> <p>(3) In actively respiring mitochondria, the matrix is more acidic than the inter-membrane space</p> <p>(4) Many of the mitochondrial proteins are encoded by the nuclear genome</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 | | | | | | | | | | |
| Objective Question | | | | | | | | | | | | | | |
| 4 | 12004 | <p>Which one of the following statements regarding miRNA is INCORRECT?</p> <p>(1) Generated from large precursor RNAs</p> <p>(2) Inhibits translation by binding to the 3'-UTR of mRNAs</p> <p>(3) Biogenesis involves RNase H</p> <p>(4) Present in higher eukaryotes including nematodes, fruit flies, plants, and mammals</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 | | | | | | | | | | |
| Objective Question | | | | | | | | | | | | | | |
| 5 | 12005 | <p>Match items in List I with items in List II :</p> <table border="0"> <tr> <td>List I</td> <td>List II</td> </tr> <tr> <td>(A) Sulphur containing amino acid</td> <td>(I) Aspartic acid</td> </tr> <tr> <td>(B) Optically inactive amino acid</td> <td>(II) Methionine</td> </tr> <tr> <td>(C) Acidic amino acid</td> <td>(III) Lysine</td> </tr> <tr> <td>(D) Basic amino acid</td> <td>(IV) Glycine</td> </tr> </table> <p>Choose the correct answer from the options given below :</p> <p>(1) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)</p> <p>(2) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)</p> <p>(3) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)</p> <p>(4) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)</p> | List I | List II | (A) Sulphur containing amino acid | (I) Aspartic acid | (B) Optically inactive amino acid | (II) Methionine | (C) Acidic amino acid | (III) Lysine | (D) Basic amino acid | (IV) Glycine | 3.0 | 1.00 |
| List I | List II | | | | | | | | | | | | | |
| (A) Sulphur containing amino acid | (I) Aspartic acid | | | | | | | | | | | | | |
| (B) Optically inactive amino acid | (II) Methionine | | | | | | | | | | | | | |
| (C) Acidic amino acid | (III) Lysine | | | | | | | | | | | | | |
| (D) Basic amino acid | (IV) Glycine | | | | | | | | | | | | | |

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|--------------------|-------|---|-----|------|
| | | A1 : 1 A2 : 2 A3 : 3 A4 : 4 | | |
| Objective Question | | | | |
| 9 | 12009 | How many oxygen atoms, in terms of Avogadro's number (N_A), are present in 9.0 g of H_2O ? (1) N_A (2) $2N_A$ (3) $N_A/2$ (4) $N_A/4$ A1 : 1 A2 : 2 A3 : 3 A4 : 4 | 3.0 | 1.00 |
| Objective Question | | | | |
| 10 | 12010 | Polymerisation of isoprene gives (1) Natural rubber (2) Polyester (3) Buna-N (4) Neoprene A1 : 1 A2 : 2 A3 : 3 A4 : 4 | 3.0 | 1.00 |
| Objective Question | | | | |
| 11 | 12011 | How many pi-bonds are present in cyano-benzene? (1) 6 (2) 5 (3) 4 (4) 3 A1 : 1 A2 : 2 A3 : 3 A4 : 4 | 3.0 | 1.00 |

| Objective Question | | | | |
|--------------------|-------|---|-----|------|
| 12 | 12012 | <p>Given below are two statements :</p> <p>Statement I : Penicillin is an antibiotic derived from fungus.</p> <p>Statement II : Antibiotics are compounds obtained from micro-organisms and are used as pain killers.</p> <p>In light of the above statements, choose the correct answer from the options given below :</p> <p>(1) Both Statement I and Statement II are correct</p> <p>(2) Both Statement I and Statement II are incorrect</p> <p>(3) Statement I is correct but Statement II is incorrect</p> <p>(4) Statement I is incorrect but Statement II is correct</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 13 | 12013 | <p>In which of the following collisions, the total linear momentum of two colliding bodies is completely conserved?</p> <p>(1) Elastic collision</p> <p>(2) Completely inelastic collision</p> <p>(3) Partially elastic collision</p> <p>(4) Any type of collision i.e. elastic, completely inelastic, or partially elastic</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 14 | 12014 | | 3.0 | 1.00 |

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| | | A4 : 4 | | |
| Objective Question | | | | |
| 17 | 12017 | <p>The velocity of light in vacuum is 3×10^8 m/s. If the refractive index of glass is 1.5, what will be the velocity of light in glass?</p> <p>(1) 4.5×10^8 m/s (2) 2×10^8 m/s (3) 3×10^8 m/s (4) 0 m/s</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 18 | 12018 | <p>Sunita is looking for her father. She went 90 m east before turning to her right. She went 20 m, took a right turn and walked for 30 m to look for her father at her uncle's place. Not finding him there, she went 100 m to the North before meeting her father in a street. How far is Sunita from her starting point?</p> <p>(1) 80 m (2) 100 m (3) 140 m (4) 260 m</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 19 | 12019 | <p>If sales tax is reduced from $3\frac{1}{2}\%$ to $3\frac{1}{3}\%$, then what will be the reduction in the net price of an article with a marked value of ₹ 8,400?</p> <p>(1) ₹ 23 (2) ₹ 32 (3) ₹ 14 (4) ₹ 45</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 20 | 12020 | | 3.0 | 1.00 |

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| | | <p>In School A and School B, 20% and 25% of the students participate in sports, respectively. If School B has 60% more students than School A, then the number of students participating in sports in School A is</p> <p>(1) $\frac{1}{4}$ the number participating in sports in School B</p> <p>(2) $\frac{1}{2}$ the number participating in sports in School B</p> <p>(3) $\frac{1}{16}$ the number participating in sports in School B</p> <p>(4) $\frac{1}{8}$ the number participating in sports in School B</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | | |
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Objective Question

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| 34 | 12034 | <p>Which one of the following is the lowest integer that is divisible by each of the integers 1 through 8, both inclusive?</p> <p>(1) 210</p> <p>(2) 420</p> <p>(3) 840</p> <p>(4) 2520</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

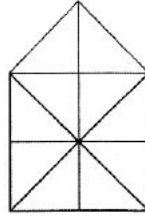
| | | | | |
|----|-------|--|-----|------|
| 35 | 12035 | <p>A tap X fills a tank in 5 hours. Another tap Y fills the same tank in 3 hours. If X starts filling the empty tank and tap Y joins after 1 hour, then how much time will it take for the tank to be completely filled starting from the time when the tap X started filling it?</p> <p>(1) 90 minutes</p> <p>(2) 120 minutes</p> <p>(3) 100 minutes</p> <p>(4) 150 minutes</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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Identify the number of triangles in the following figure



- (1) 20
- (2) 21
- (3) 22
- (4) 25

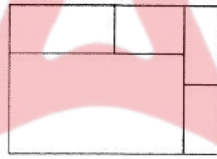
- A1 : 1
- A2 : 2
- A3 : 3
- A4 : 4

Objective Question

40 12040

3.0 1.00

Identify the total number of rectangles in the given figure



- (1) 6
- (2) 8
- (3) 10
- (4) 9

- A1 : 1
- A2 : 2
- A3 : 3
- A4 : 4

Objective Question

41 12041

3.0 1.00

Find the odd one out of the following

- (1) Bat-Wings
- (2) Cat-Paws
- (3) Mouse-Teeth
- (4) Fish-Fin

- A1 : 1
- A2 : 2
- A3 : 3

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| | | A4 : 4 | | |
| Objective Question | | | | |
| 55 | 12055 | <p>Given below are two statements: One is labelled as Assertion (A) and other is labelled as Reason (R)</p> <p>Assertion (A): Spectrophotometry is a technique used for quantitative estimation of biomolecules in a solution.</p> <p>Reason (R): Spectrophotometry is based on the Bragg's Law.</p> <p>In light of the above statements, choose the correct answer from the options given below :</p> <p>(1) Both (A) and (R) are correct and (R) is the correct explanation of (A)</p> <p>(2) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)</p> <p>(3) (A) is correct but (R) is not correct</p> <p>(4) (A) is not correct but (R) is correct</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 56 | 12056 | <p>Which one of the following techniques is used for detecting protein-protein interactions <i>in vivo</i>?</p> <p>(1) Surface Plasmon Resonance</p> <p>(2) ELISA</p> <p>(3) Yeast Two Hybrid Assay</p> <p>(4) Yeast One Hybrid Assay</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 57 | 12057 | | 3.0 | 1.00 |

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| | | <p>What is the purpose of using quantitative real time PCR (qRT-PCR)?</p> <p>(1) Quantify gene expression levels based on DNA content</p> <p>(2) Quantify gene expression levels based on RNA transcripts</p> <p>(3) Identification of transcription start site</p> <p>(4) Sequence DNA fragments to determine their identity</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | | |
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Objective Question

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| 58 | 12058 | <p>Which one of the following methods is based on the binding of Coomassie Brilliant Blue to proteins to determine the protein concentration?</p> <p>(1) Lowry method</p> <p>(2) BCA method</p> <p>(3) Bradford method</p> <p>(4) Kjeldahl method</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|---|---|---|---|---|-----|------|
| 59 | 12059 | <p>Match the items in List I with items in List II :</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p>List I</p> <p>(A) Surface Plasmon Resonance</p> <p>(B) Iso-electric Focusing</p> <p>(C) Single-strand Conformation Polymorphism</p> <p>(D) Denaturing Gradient Gel Electrophoresis</p> </td> <td style="vertical-align: top;"> <p>List II</p> <p>(I) Conformation difference of DNA</p> <p>(II) Melting temperature of DNA strands</p> <p>(III) Resolving protein mixtures</p> <p>(IV) Protein-protein interaction</p> </td> </tr> </table> <p>Choose the correct answer from the options given below :</p> <p>(1) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)</p> <p>(2) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)</p> <p>(3) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)</p> <p>(4) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)</p> <p>A1 : 1</p> <p>A2 : 2</p> | <p>List I</p> <p>(A) Surface Plasmon Resonance</p> <p>(B) Iso-electric Focusing</p> <p>(C) Single-strand Conformation Polymorphism</p> <p>(D) Denaturing Gradient Gel Electrophoresis</p> | <p>List II</p> <p>(I) Conformation difference of DNA</p> <p>(II) Melting temperature of DNA strands</p> <p>(III) Resolving protein mixtures</p> <p>(IV) Protein-protein interaction</p> | 3.0 | 1.00 |
| <p>List I</p> <p>(A) Surface Plasmon Resonance</p> <p>(B) Iso-electric Focusing</p> <p>(C) Single-strand Conformation Polymorphism</p> <p>(D) Denaturing Gradient Gel Electrophoresis</p> | <p>List II</p> <p>(I) Conformation difference of DNA</p> <p>(II) Melting temperature of DNA strands</p> <p>(III) Resolving protein mixtures</p> <p>(IV) Protein-protein interaction</p> | | | | | |

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| | | <p>In a Chemostat, which one of the following would increase the exit cell concentration?</p> <p>(1) Increase in dilution rate (2) Increase in inlet substrate concentration (3) Increase in inoculum dilution (4) Increase in impeller size</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
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| Objective Question | | | | |
| 63 | 12063 | <p>Which one of the following uses a photocell to measure the cell density of a culture to regulate the flow of culture media?</p> <p>(1) Chemostat (2) Turbidostat (3) Hemostat (4) Cryostat</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |

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| Objective Question | | | | |
| 64 | 12064 | <p>In a bioprocess mainly producing cell biomass, if the microbial cell yield has halved, what would be the rate of substrate consumption to maintain the same rate of cell mass production?</p> <p>(1) It would be doubled (2) It would also be halved (3) It would remain unchanged (4) It would increase four fold</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |

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| Objective Question | | | | |
| 65 | 12065 | | 3.0 | 1.00 |

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| | | <p>The first commercially produced plant secondary metabolite using plant suspension culture in bioreactor was</p> <p>(1) Shikonin (2) Colchicine (3) Riboflavin (4) Cytokinin</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
|--|--|---|--|--|

Objective Question

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|----|-------|--|-----|------|
| 66 | 12066 | <p>Two proteins have approximately the same molecular weight and isoelectric point. The best way to resolve them would be using</p> <p>(1) Reverse phase chromatography (2) Thin layer chromatography (3) Gel filtration (4) Isoelectric focusing</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|----|-------|---|-----|------|
| 67 | 12067 | <p>Sugarcane molasses containing 50% sucrose, 1% invert sugars, 18% water and 31% other solids is mixed with corn steep liquor containing 2.5% invert sugars, 50% water and 47.5% other solids to produce a diluted sugar mixture containing 2% invert sugars. 125 kg corn steep liquor and 45 kg molasses are fed into the mixing tank. How much water should be added to the mixing tank to produce the desired diluted sugar mixture?</p> <p>(1) 6.25 kg (2) 10.05 kg (3) 7.20 kg (4) 8.75 kg</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|----|-------|---|-----|------|

Objective Question

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| 68 | 12068 | | 3.0 | 1.00 |
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| | | A2 : 2 | | |
| | | A3 : 3 | | |
| | | A4 : 4 | | |

Objective Question

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|----|-------|---|-----|------|
| 80 | 12080 | <p>The following sequence of DNA seems to form a structure.</p> <p>5' ATCCGTGAATTACGGAT 3'</p> <p>When the third base is changed from C to G the DNA loses its structure. However if in the background of this change, the 15th base (which is the 3rd last one) is changed from G to C, the DNA regains back its structure. The most plausible reason for these observations is</p> <ol style="list-style-type: none"> (1) The 3rd base and 15th base are paired in a stem like structure (2) The 3rd and the 15th base are part of a loop like structure (3) The 3rd and 15th bases have steric clashes. (4) The 3rd base pairs with the 5th base and the 15th base pairs with the 13th one <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|----|-------|---|-----|------|

Objective Question

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|----|-------|--|-----|------|
| 81 | 12081 | <p>Given below are two statements :</p> <p>Statement I : Unfolded protein response occurs when cells are stressed.</p> <p>Statement II : Unfolded protein response is a hallmark response by the nucleus to protect the genome.</p> <p>In light of the above statements, choose the correct answer from the options given below :</p> <ol style="list-style-type: none"> (1) Both Statement I and Statement II are correct (2) Both Statement I and Statement II are incorrect (3) Statement I is correct but Statement II is incorrect (4) Statement I is incorrect but Statement II is correct <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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| | <p>After solving a protein structure by X-ray crystallography you found that a few residues are in the disallowed region of the Ramachandran Map. Which one of the following are plausible explanations for this observation?</p> <p>(A) There may be errors in the structure of these residues (B) There may be side-chain interactions in those residues that off-set the disallowed cost (C) The protein may have a lot of Proline residues (D) The protein may not be in a proper folded state when it was crystallized</p> <p>Choose the correct answer from the options given below:</p> <p>(1) (A) and (B) Only (2) (B) and (C) Only (3) (A) and (D) Only (4) (C) and (D) Only</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
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| Objective Question | | | | |
| 90 | 12090 | <p>Real time PCR was done with the two patient samples, A and B, to detect SARS-CoV-2 virus. The Ct value obtained in patient sample A was higher than that obtained in patient sample B. The inference to be drawn from this observation is that the</p> <p>(1) patient A has a higher viral load than patient B (2) patient B has higher viral load than patient A (3) strain infecting Patient A is more virulent than that in Patient B (4) viral load cannot be determined by the Ct value</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |

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|--------------------|-------|--|-----|------|
| Objective Question | | | | |
| 91 | 12091 | <p>RNAi was discovered in</p> <p>(1) <i>Drosophila melanogaster</i> (2) <i>Caenorhabditis elegans</i> (3) <i>Escherichia coli</i> (4) <i>Saccharomyces cerevisiae</i></p> <p>A1 : 1 A2 : 2</p> | 3.0 | 1.00 |

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| | | <p>Transmission of organisms from mother to fetus or new born child is known as Vertical transmission of infection. Which one of the following is most likely to transmit vertically?</p> <p>(1) <i>Clostridium tetani</i> (2) <i>Chlamydia trachomatis</i> (3) <i>Shigella dysenteriae</i> (4) <i>Streptococcus pneumoniae</i></p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
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Objective Question

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|-----|-------|--|-----|------|
| 102 | 12102 | <p>Which one of the following combinations of the drugs acts to inhibit the same metabolic pathway?</p> <p>(1) Sulfonamide and Trimethoprim (2) Amphotericin and Flucytosine (3) Isoniazid and Rifampicin (4) Penicillin G and Gentamicin</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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| 103 | 12103 | <p>Which one of the following statements is NOT correct about human immunodeficiency virus (HIV)?</p> <p>(1) HIV is an enveloped RNA virus (2) Acyclovir inhibits HIV replication (3) A DNA copy of the HIV genome may integrate into host cell DNA (4) The virion contains an RNA-dependent DNA polymerase</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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| 104 | 12104 | | 3.0 | 1.00 |
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| | | <p>India has major burden of tuberculosis (TB) which is caused by <i>Mycobacterium tuberculosis</i>. Efforts are on to eliminate TB by 2025 and effective prophylaxis against the disease can be achieved with the BCG vaccine, which has been developed from</p> <p>(1) <i>Mycobacterium tuberculosis</i> (2) <i>Mycobacterium avium</i> (3) <i>Mycobacterium bovis</i> (4) <i>Mycobacterium smegmatis</i></p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
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Objective Question

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|-----|-------|--|-----|------|
| 105 | 12105 | <p>Flow cytometry is an analytical technique that quantifies the frequencies of cells binding to fluorescent antibodies and scattering light in characteristic ways. When a flow cytometer is used to sort cell subpopulations on the basis of fluorescence and light scattering it is referred to as Fluorescence Activated Cell Sorting (FACS). Which one of the following statement is NOT correct regarding FACS?</p> <p>(1) Every time a cell passes in front of the laser beam, light is scattered, and this scattering of the laser signal is recorded (2) The more forward light scatter, the larger the cell, and so the amount of light scattered in the forward direction can be used as a rough measure of the range of sizes of the cells in the stream (3) The amount of side scattered light offers an indication of the extent of size of the scattering cells (4) Cells in suspension are hydrodynamically focused into a narrow stream by being introduced inside a rapidly moving column of sheath fluid</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|-----|-------|---|-----|------|
| 106 | 12106 | <p>While running in the 200 meter race in National Games, the required ATP generation in the athlete is primarily facilitated by:</p> <p>(1) Contraction of Actin and myosin proteins (2) Hydrolysis of stored ATP polymer (3) Creatine phosphate in the muscle (4) Ketone bodies in the muscles</p> <p>A1 : 1 A2 : 2</p> | 3.0 | 1.00 |
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| | | <p>The vaccine for cervical cancer is composed of</p> <ol style="list-style-type: none"> (1) Human Papilloma Virus-like-particles (VLPs) (2) Inactivated Human Papilloma Virus (3) Live attenuated Human Papilloma Virus (4) Recombinant adenovirus <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | | |
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Objective Question

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|---|--|---|---|--|-----|------|
| 110 | 12110 | <p>Match the items in List I with the items in List II :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>List I</p> <p>(A) Cystic Fibrosis</p> <p>(B) Lesch-Nyhan syndrome</p> <p>(C) Severe combined immunodeficiency</p> <p>(D) Spinal muscle atrophy</p> </td> <td style="width: 50%; border: none;"> <p>List II</p> <p>(I) Hypoxanthine-guanine phosphoribosyl transferase</p> <p>(II) CFTR</p> <p>(III) SMN1/2</p> <p>(IV) Adenosine Deaminase</p> </td> </tr> </table> <p>Choose the correct answer from the options given below :</p> <ol style="list-style-type: none"> (1) (A)-(IV), (B)-(I), (C)-(III), (D)-(II) (2) (A)-(II), (B)-(III), (C)-(I), (D)-(IV) (3) (A)-(IV), (B)-(III), (C)-(I), (D)-(II) (4) (A)-(II), (B)-(I), (C)-(IV), (D)-(III) <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | <p>List I</p> <p>(A) Cystic Fibrosis</p> <p>(B) Lesch-Nyhan syndrome</p> <p>(C) Severe combined immunodeficiency</p> <p>(D) Spinal muscle atrophy</p> | <p>List II</p> <p>(I) Hypoxanthine-guanine phosphoribosyl transferase</p> <p>(II) CFTR</p> <p>(III) SMN1/2</p> <p>(IV) Adenosine Deaminase</p> | 3.0 | 1.00 |
| <p>List I</p> <p>(A) Cystic Fibrosis</p> <p>(B) Lesch-Nyhan syndrome</p> <p>(C) Severe combined immunodeficiency</p> <p>(D) Spinal muscle atrophy</p> | <p>List II</p> <p>(I) Hypoxanthine-guanine phosphoribosyl transferase</p> <p>(II) CFTR</p> <p>(III) SMN1/2</p> <p>(IV) Adenosine Deaminase</p> | | | | | |

Objective Question

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|--|---|---|--|---|-----|------|
| 111 | 12111 | <p>Which one of the following antibiotic specifically inhibits RNA synthesis?</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>(1) Isoniazid</p> <p>(3) Rifampicin</p> </td> <td style="width: 50%; border: none;"> <p>(2) Penicillin</p> <p>(4) Streptomycin</p> </td> </tr> </table> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> | <p>(1) Isoniazid</p> <p>(3) Rifampicin</p> | <p>(2) Penicillin</p> <p>(4) Streptomycin</p> | 3.0 | 1.00 |
| <p>(1) Isoniazid</p> <p>(3) Rifampicin</p> | <p>(2) Penicillin</p> <p>(4) Streptomycin</p> | | | | | |

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| | | A4 : 4 | | |
| Objective Question | | | | |
| 112 | 12112 | <p>Given below are two statements :</p> <p>Statement I : If one parent carries the defective Huntington disease gene, his or her offspring have a 100% chance of inheriting the disease</p> <p>Statement II : Huntington disease is an autosomal dominant genetic disorder</p> <p>In light of the above statements, choose the correct answer from the options given below :</p> <p>(1) Both Statement I and Statement II are correct</p> <p>(2) Both Statement I and Statement II are incorrect</p> <p>(3) Statement I is correct but Statement II is incorrect</p> <p>(4) Statement I is incorrect but Statement II is correct</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 113 | 12113 | <p>Functional magnetic resonance imaging (fMRI) is one of the most powerful methods for examining brain function. This method is based on the changes in the magnetic properties of</p> <p>(1) neurotransmitters (2) neurons</p> <p>(3) myelin (4) hemoglobin</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 114 | 12114 | <p>Which one of the following diseases is due to severe deficiency of proteins in diet?</p> <p>(1) Kwashiorkor (2) Tay-Sach's disease</p> <p>(3) Scurvy (4) Myasthenia gravis</p> <p>A1 : 1</p> | 3.0 | 1.00 |

| Objective Question | | | |
|--------------------|-------|--|-------------|
| 121 | 12121 | <p>What attribute do DREB transcription factors impart to higher plants?</p> <p>(1) Insect resistance (2) Pathogen resistance (3) Drought resistance (4) Virus resistance</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 1.00 |
| Objective Question | | | |
| 122 | 12122 | <p>Quantitative Trait Loci (QTL) can be mapped using</p> <p>(1) Transgenic approach (2) SSR markers (3) Gene editing (4) Tissue culture</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 1.00 |
| Objective Question | | | |
| 123 | 12123 | <p>Given below are two statements :</p> <p>Statement I : Heterologous expression of prokaryotic genes in plants can be used to render resistance against insects.</p> <p>Statement II : Expression of <i>BtCry1Ac</i> gene in cotton improves resistance against aphids.</p> <p>In light of the above statements, choose the correct answer from the options given below :</p> <p>(1) Both Statement I and Statement II are correct (2) Both Statement I and Statement II are incorrect (3) Statement I is correct but Statement II is incorrect (4) Statement I is incorrect but Statement II is correct</p> <p>A1 : 1 A2 : 2</p> | 3.0 1.00 |

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| | | A3 : 3 A4 : 4 | | |
| Objective Question | | | | |
| 124 | 12124 | <p>Targeted gene disruption CANNOT be achieved by</p> <p>(1) Cre/Lox system (2) CRISPR system (3) Zinc-Finger nucleases (4) T-DNA integration</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 125 | 12125 | <p>Centimorgan (cM) is defined as the genetic distance between two loci with a statistically corrected recombination frequency of</p> <p>(1) 10% (2) 0.1% (3) 1% (4) 0.01%</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 126 | 12126 | <p>Upon entering the cells, Cauliflower Mosaic Virus (CaMV) accumulates in inclusion bodies in which part of the cells?</p> <p>(1) Nucleus (2) Chloroplast (3) Cytoplasm (4) Mitochondria</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 127 | 12127 | | 3.0 | 1.00 |

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| | | <p>Which one of the following genes provide herbicide tolerance?</p> <p>(1) Neomycin phosphotransferase (2) Phosphinothricin acetyltransferase (3) Hygromycin phosphotransferase (4) Gentamycin acetyltransferase</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
|--|--|--|--|--|

Objective Question

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|-----|-------|--|-----|------|
| 128 | 12128 | <p>During cell cycle, genome replication occurs in</p> <p>(1) M Phase (2) G1 phase (3) G2 phase (4) S phase</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|-----|-------|--|-----|------|
| 129 | 12129 | <p>Plant transformation method that uses tungsten or gold particle coated with DNA accelerated at a high velocity is called:</p> <p>(1) Agrobacterium mediated particle delivery method (2) Particle bombardment method (3) High velocity gene delivery method (4) Accelerated gene delivery method</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|-----|-------|---|-----|------|
| 130 | 12130 | <p>Which one of the following chemicals enhances <i>vir</i> gene expression in Agrobacterium?</p> <p>(1) Dextran (2) Acetosyringone (3) Acetyl carboxylic acid (4) Acetyl salicylic acid</p> <p>A1 : 1</p> | 3.0 | 1.00 |
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| | | A2 : 2 A3 : 3 A4 : 4 | | |
| Objective Question | | | | |
| 131 | 12131 | In monocot seedlings the highest concentration of auxin is found in the (1) Stem (2) Bud (3) Coleoptile (4) Trichome A1 : 1 A2 : 2 A3 : 3 A4 : 4 | 3.0 | 1.00 |
| Objective Question | | | | |
| 132 | 12132 | In plants, which stage of somatic embryo development requires ABA in culture medium? (1) Formation of embryogenic cells (2) Globular embryogenesis (3) Torpedo stage (4) Maturing embryo A1 : 1 A2 : 2 A3 : 3 A4 : 4 | 3.0 | 1.00 |
| Objective Question | | | | |
| 133 | 12133 | A classical plant breeder wants to develop a disease resistant variety. What is the first step? (1) Development of Recombinant Inbred Lines (RILs) (2) Selection of a naturally resistant landrace (3) Hybridization of contrasting parents (4) Production of Near Isogenic Lines (NILs) A1 : 1 A2 : 2 A3 : 3 A4 : 4 | 3.0 | 1.00 |

| Objective Question | | | |
|--------------------|-------|--|-------------|
| 134 | 12134 | <p>Which class of enzymes catalyzes the formation of oxalo-acetic acid from phosphoenol pyruvic acid in the chloroplasts of mesophyll cells?</p> <p>(1) Dehydrogenases (2) Carboxylases (3) Decarboxylases (4) Isomerases</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 1.00 |
| Objective Question | | | |
| 135 | 12135 | <p>Given below are two statements : One is labelled as Assertion A and the other is labelled as Reason R :</p> <p>Assertion (A) : The major factors influencing the water potential in plants are solute concentration, pressure and gravity.</p> <p>Reason (R) : Turgor pressure in xylem vessel is responsible for generating the water potential.</p> <p>In light of the above statements, choose the <i>most appropriate</i> answer from the options given below :</p> <p>(1) Both (A) and (R) are correct and (R) is the correct explanation of (A) (2) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A) (3) (A) is correct but (R) is not correct (4) (A) is not correct but (R) is correct</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 1.00 |
| Objective Question | | | |
| 136 | 12136 | <p>Which one of the following is the correct sequence of electron transfer in the thylakoid membrane during light cycle of photosynthesis?</p> <p>(1) P680 – Cytochrome b₆f – PC – PQ – P700 (2) P680 – PQ-Cytochrome b₆f – PC – P700 (3) P680 – Cytochrome b₆f – PQ – PC – P700 (4) P680 – PC – Cytochrome b₆f – PQ – P700</p> | 3.0 1.00 |

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| | | A1 : 1 | | |
| | | A2 : 2 | | |
| | | A3 : 3 | | |
| | | A4 : 4 | | |

Objective Question

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|-----|-------|---|-----|------|
| 137 | 12137 | <p>Vinblastine and vincristine, the potent anticancer metabolites present in <i>Catharanthus roseus</i>, accumulate in which one of the following?</p> <p>(1) Middle Lamella (2) Primary cell walls (3) Schlerenchyma (4) Idioblasts</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|-----|-------|--|-----|------|
| 138 | 12138 | <p>Which one of the following is the immediate effect of ABA-dependent stomatal closure in plants?</p> <p>(1) Enhanced transpiration and enhanced photosynthesis (2) Reduced transpiration and enhanced photosynthesis (3) Enhanced transpiration and reduced photosynthesis (4) Reduced transpiration and reduced photosynthesis</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|-----|-------|--|-----|------|
| 139 | 12139 | <p>The ABC model of flower development determines organ arrangement in the sequence sepal, petal, stamen and carpel. Due to the loss of Class A gene functions, the observed phenotype will be</p> <p>(1) Sepal, Sepal, Carpel, Carpel (2) Stamen, Carpel, Carpel, Carpel (3) Sepal, Petal, Petal, Sepal (4) Carpel, Stamen, Stamen, Carpel</p> <p>A1 : 1 A2 : 2</p> | 3.0 | 1.00 |
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| | | A3 : 3 A4 : 4 | | | | | | | | | | | | |
| Objective Question | | | | | | | | | | | | | | |
| 140 | 12140 | <p>Which one of the following enzymes is administered to dissolve blood clots during heart attack treatment?</p> <p>(1) Amylase (2) Laccase (3) Streptokinase (4) Acylase</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 | | | | | | | | | | |
| Objective Question | | | | | | | | | | | | | | |
| 141 | 12141 | <p>Which one of the following anti-diabetic drugs is produced by coupling of GLP-1 peptide with IgG-Fc?</p> <p>(1) Semaglutide (2) Liraglutide (3) Dulaglutide (4) Insulin</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 | | | | | | | | | | |
| Objective Question | | | | | | | | | | | | | | |
| 142 | 12142 | <p>Match the enzymes in List I with their products items in List II :</p> <table border="0"> <tr> <td style="text-align: center;">List I</td> <td style="text-align: center;">List II</td> </tr> <tr> <td>(A) Penicillin Acylase</td> <td>(I) Bioactive peptides</td> </tr> <tr> <td>(B) Alkalase</td> <td>(II) 6-APA</td> </tr> <tr> <td>(C) Thermolysin</td> <td>(III) Lactose free milk</td> </tr> <tr> <td>(D) β-galactosidase</td> <td>(IV) Aspartame</td> </tr> </table> <p>Choose the correct answer from the options given below :</p> <p>(1) (A)-(II), (B)-(IV), (C)-(III), (D)-(I) (2) (A)-(III), (B)-(IV), (C)-(I), (D)-(II) (3) (A)-(III), (B)-(I), (C)-(II), (D)-(IV) (4) (A)-(II), (B)-(I), (C)-(IV), (D)-(III)</p> | List I | List II | (A) Penicillin Acylase | (I) Bioactive peptides | (B) Alkalase | (II) 6-APA | (C) Thermolysin | (III) Lactose free milk | (D) β -galactosidase | (IV) Aspartame | 3.0 | 1.00 |
| List I | List II | | | | | | | | | | | | | |
| (A) Penicillin Acylase | (I) Bioactive peptides | | | | | | | | | | | | | |
| (B) Alkalase | (II) 6-APA | | | | | | | | | | | | | |
| (C) Thermolysin | (III) Lactose free milk | | | | | | | | | | | | | |
| (D) β -galactosidase | (IV) Aspartame | | | | | | | | | | | | | |

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| | | A1 : 1 | | |
| | | A2 : 2 | | |
| | | A3 : 3 | | |
| | | A4 : 4 | | |

Objective Question

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|-----|-------|---|-----|------|
| 143 | 12143 | <p>Given below are two statements :</p> <p>Statement I : Both aspirin and paracetamol belong to non-narcotic analgesics.</p> <p>Statement II : The synthesis of prostaglandins, which stimulate inflammation in the tissue causing pain, is inhibited by aspirin.</p> <p>In light of the above statements, choose the correct answer from the options below :</p> <p>(1) Both Statement I and Statement II are correct</p> <p>(2) Both Statement I and Statement II are incorrect</p> <p>(3) Statement I is correct but Statement II is incorrect</p> <p>(4) Statement I is incorrect but Statement II is correct</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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| 144 | 12144 | <p>Given below are two statements :</p> <p>Statement I : The manufacturing process of SARS-CoV-2 mRNA vaccine requires synthesis of mRNA from DNA using <i>in vitro</i> transcription.</p> <p>Statement II : The naked mRNA is administered intramuscularly to the vaccine recipients to generate a protective immune response.</p> <p>In light of the above statements, choose the correct answer from the options given below :</p> <p>(1) Both Statement I and Statement II are correct</p> <p>(2) Both Statement I and Statement II are incorrect</p> <p>(3) Statement I is correct but Statement II is incorrect</p> <p>(4) Statement I is incorrect but Statement II is correct</p> <p>A1 : 1</p> | 3.0 | 1.00 |
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| | | A2 : 2 | | |
| | | A3 : 3 | | |
| | | A4 : 4 | | |

Objective Question

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| 145 | 12145 | <p><i>Saccharomyces cerevisiae</i> was grown in batch fermentation mode to produce ethanol. The rate of ethanol production in the exponential phase was 2 g/L/h, which decreased to 1 g/L/h after sometime. Which of these is least likely to be responsible for this?</p> <p>(1) Nutrient depletion (2) Mineral salt depletion (3) Oxygen depletion (4) Accumulation of waste</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|---|-----|------|

Objective Question

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|-----|-------|---|-----|------|
| 146 | 12146 | <p>The aspect ratio (based on height & diameter) of a tower reactor is</p> <p>(1) 6/1 – 10/1 (2) 2/1 – 3/1 (3) 2/1 – 4/1 (4) 1 – 1/2</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|-----|-------|---|-----|------|
| 147 | 12147 | <p>The average molecular weight of a nucleotide base in oligonucleotides is 330. What would be the amount required to prepare 100 μL of 1 μM solution of a 20 bp long single-stranded DNA?</p> <p>(1) 660 μg (2) 66 μg (3) 6.6 μg (4) 0.66 μg</p> <p>A1 : 1 A2 : 2 A3 : 3</p> | 3.0 | 1.00 |
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| | | <p>You have mixed 100 ml of 0.5 M solution of glucose and 200 ml of 0.5 M solution of glucose. The resultant solution will contain</p> <p>(1) 0.25 M glucose (2) 0.5 M glucose (3) 0.33 M glucose (4) 0.25 M maltose</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
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Objective Question

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|-----|-------|---|-----|------|
| 155 | 12155 | <p>The penicillin extraction process involves the following steps:</p> <p>A. Extraction from the organic solvent into an aqueous buffer B. Extraction from the aqueous buffer into an organic solvent C. Extraction of penicillin from the filtered broth into organic solvent D. Extraction of solvent to obtain penicillin salt</p> <p>Choose the correct sequence of steps from the options given below :</p> <p>(1) B → A → C → D (2) C → A → B → D (3) D → A → B → C (4) A → B → C → D</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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| 156 | 12156 | <p>Suppose that an obligate anaerobe suffered a mutation that resulted in the loss of triose phosphate isomerase activity. What will be the net ATP yield under anaerobic condition?</p> <p>(1) 0 (2) 1 (3) 2 (4) 4</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

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|-----|-------|--|-----|------|
| 157 | 12157 | | 3.0 | 1.00 |
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|--|--|--|--|--|
| | | <p>Which of the following processes can be utilized for sterilization of medium with heat-sensitive components?</p> <p>(1) Short sterilization (2) Batch sterilization</p> <p>(3) Dry sterilization (4) Microfiltration</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | | |
|--|--|--|--|--|

Objective Question

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|-----|-------|--|-----|------|
| 158 | 12158 | <p><i>Bacillus polymyxa</i> strain was cultivated under anaerobic condition in a media containing 10 g/L glucose as the sole carbon source. The glucose was completely utilized in 10 h producing 2, 3-Butanediol with productivity of 5 g/L/h. What is the yield of 2, 3-Butanediol produced per gram of glucose consumed (g/g)?</p> <p>(1) 5 (2) 10</p> <p>(3) 50 (4) 100</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

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|-----|-------|--|-----|------|
| 159 | 12159 | <p>If the partitioning coefficient (K) of a solute is 20 when it is extracted by an organic solvent from culture medium, what is the amount of solvent required per litre of culture medium to extract 90% of the solute in a single equilibrium stage?</p> <p>(1) 0.45 litre (2) 4.5 litre</p> <p>(3) 0.045 litre (4) 45 litre</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|-----|-------|--|-----|------|
| 160 | 12160 | | 3.0 | 1.00 |
|-----|-------|--|-----|------|

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|--|--|---|--|--|
| | | <p>With respect to Good Manufacturing Practices and Process Safety, HACCP stands for</p> <ol style="list-style-type: none"> (1) Help and Awareness in Critical Care Processes (2) Human Awareness in Commercial Critical Processes (3) Hazard Analysis and Critical Care Point (4) Hazard Analysis and Critical Control Point <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | | |
|--|--|---|--|--|

Objective Question

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|-----|-------|---|-----|------|
| 161 | 12161 | <p>Which of the following ISO standards is designed for Food Safety Management?</p> <ol style="list-style-type: none"> (1) ISO 9000 series (2) ISO 14000 series (3) ISO 18000 series (4) ISO 22000 series <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|---|-----|------|

Objective Question

| | | | | |
|-----|-------|--|-----|------|
| 162 | 12162 | <p>Which of the following methods is used for rapid and accurate detection of toxic organisms in food?</p> <ol style="list-style-type: none"> (1) Staining (2) ATP estimation (3) PCR (4) MPN counting <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

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|-----|-------|--|-----|------|
| 163 | 12163 | | 3.0 | 1.00 |
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|--|--|---|--|--|
| | | <p>An investigation of an outbreak of food poisoning following consumption of cultivated mussels showed the presence of a glutamate antagonist known as domoic acid in the body of the affected persons. What is the source of the domoic acid?</p> <p>(1) <i>Escherichia coli</i> contamination (2) <i>Gambierdiscus toxicus</i> contamination (3) <i>Nitzschia pungens</i> contamination (4) <i>Salmonella</i> species contamination</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
|--|--|---|--|--|

Objective Question

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|-----|-------|---|-----|------|
| 164 | 12164 | <p>Which among the following bacteria is the most heat tolerant?</p> <p>(1) <i>Clostridium botulinum</i> type E (2) <i>Bacillus coagulans</i> (3) <i>Clostridium pasteurianum</i> (4) <i>Bacillus polymyza</i></p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|---|-----|------|

Objective Question

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|-----|-------|--|-----|------|
| 165 | 12165 | <p>The recent advancements in computing that has exponentially enhanced computing power for bioinformatics include</p> <p>(1) Logical and High Performance Computing (2) BIT and Graphic Processing Units aided Computing (3) Graphic Processing Units and High Performance Computing (4) High Performance Serial Computing</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

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| 166 | 12166 | | 3.0 | 1.00 |
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|--|--|---|--|--|
| | | <p>The researchers are looking for a possible DNA-binding groove in a protein structure. It is most likely to be a</p> <p>(1) Negatively charged region (2) Positively charged region (3) Hydrophobic region (4) Unstructured region</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | | |
|--|--|---|--|--|

Objective Question

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|-----|-------|---|-----|------|
| 167 | 12167 | <p>Which one of the following CANNOT be used to determine the atomic structure of proteins?</p> <p>(1) Cryo Electron Microscopy (2) Nuclear Magnetic Resonance Spectroscopy (3) X-ray Crystallography (4) Atomic Absorption Spectroscopy</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|---|-----|------|

Objective Question

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|-----|-------|---|-----|------|
| 168 | 12168 | <p>Which one of the following represents the structure of silk protein fibroin?</p> <p>(1) Antiparallel β-sheets (2) α-helical filament (3) Mixture of α-helices and β-sheets (4) Parallel β-sheets</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|---|-----|------|

Objective Question

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|-----|-------|--|-----|------|
| 169 | 12169 | <p>Which one of the following amino acid residue pairs can disrupt α-helices?</p> <p>(1) Glutamine and Proline (2) Lysine and Arginine (3) Glycine and Proline (4) Alanine and Leucine</p> | 3.0 | 1.00 |
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| | | A1 : 1 | | |
| | | A2 : 2 | | |
| | | A3 : 3 | | |
| | | A4 : 4 | | |

Objective Question

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|-----|-------|--|-----|------|
| 170 | 12170 | <p>Organic solvent acetone denatures proteins by</p> <p>(1) Disrupting hydrophobic core (2) Altering net charge of protein</p> <p>(3) Breaking covalent bonds (4) Disrupting inherent symmetry</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

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|-----|-------|---|-----|------|
| 171 | 12171 | <p>The Levinthal paradox is related to</p> <p>(1) Enzyme kinetics (2) Metabolic pathways</p> <p>(3) Protein folding (4) Protein transport</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|---|-----|------|

Objective Question

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|-----|-------|--|-----|------|
| 172 | 12172 | <p>Which one of the following does NOT assist protein folding?</p> <p>(1) GroEL/GroES (2) DnaJ/DnaK</p> <p>(3) Protein disulfide Isomerase (4) Topoisomerase</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
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Objective Question

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|-----|-------|--|-----|------|
| 173 | 12173 | <p>The amino acid glycine is always present in</p> <p>(1) Type 1 β-turn (2) Type 2 β-turn</p> <p>(3) α-helix (4) Random coil</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

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|-----|-------|--|-----|------|
| 174 | 12174 | <p>In α-helices, hydrogen bonds are formed in the polypeptide backbone between the $-C=O$ group of the first amino acid and the</p> <p>(1) $-NH$ group of the fifth amino acid (2) $-NH$ group of the fourth amino acid</p> <p>(3) $-C=O$ group of the fifth amino acid (4) $-C=O$ group of the fourth amino acid</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

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|-----|-------|--|-----|------|
| 175 | 12175 | <p>The number of base pairs present per helical turn in B-DNA is</p> <p>(1) 12 (2) 14.8</p> <p>(3) 10.5 (4) 16</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

| | | | | |
|-----|-------|---|-----|------|
| 176 | 12176 | <p>Molecular Dynamics does NOT involve calculations of</p> <p>(1) Interatomic charges (2) Force constants for bonded atoms</p> <p>(3) Quantum mechanics (4) Lennard-Jones potential</p> <p>A1 : 1</p> <p>A2 : 2</p> | 3.0 | 1.00 |
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|--------------------|-------|---|-----|------|
| | | A3 : 3 A4 : 4 | | |
| Objective Question | | | | |
| 177 | 12177 | <p>Alphafold is a protein folding algorithm based on</p> <p>(1) <i>ab initio</i> methods (2) statistical linear regression</p> <p>(3) threading (4) machine learning</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 178 | 12178 | <p>For phylogenetic analysis, which of the following is correct?</p> <p>(1) BLAST alignments are necessary for performing phylogenetic analysis</p> <p>(2) The multiple sequence alignments should ideally be trimmed to edit out the non-aligning regions before phylogenetic analysis</p> <p>(3) Phylogenetic analysis is not effective for highly similar protein sequences</p> <p>(4) Phylogenetic analysis can only be done for proteins from organisms within the same phyla</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 179 | 12179 | <p>The following BLAST statistic does NOT change for same pair-wise alignments with different query databases;</p> <p>(1) E-value (2) BIT-score</p> <p>(3) E-value and BIT-score (4) E-value and identity</p> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |

| Objective Question | | | | |
|--------------------|-------|---|-----|------|
| 180 | 12180 | <p>Which one of the following statements is correct?</p> <p>(1) T-COFFEE is a multiple sequence alignment tool</p> <p>(2) In a multiple sequence alignment, single columns in the alignments can be insertions</p> <p>(3) Phylogenetic algorithms do not need multiple sequence alignments before drawing phylogeny</p> <p>(4) BLAST is the most accurate multiple sequence alignment algorithm</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 181 | 12181 | <p>Which one of the following is an example of a global alignment algorithm?</p> <p>(1) Smith-Waterman</p> <p>(2) Needleman-Wunsch</p> <p>(3) BLAST</p> <p>(4) PSI-BLAST</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |
| 182 | 12182 | <p>Which one of the following statements is correct?</p> <p>(1) Artificial Intelligence is a type of Machine Learning</p> <p>(2) Machine Learning is a type of Deep Learning</p> <p>(3) Neural Networks are a type of Machine Learning</p> <p>(4) Machine Learning is a type of Artificial Neural Networks</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |
| Objective Question | | | | |

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| | | | | |
|-----|-------|---|-----|------|
| 183 | 12183 | <p>The researchers are interested in solving the structure of a given protein through X-ray diffraction crystallography. Which one of the following types of proteins is likely to be more difficult to crystallize?</p> <ol style="list-style-type: none"> (1) Protein with positively charged residues on the surface (2) Protein with hydrophobic patches on the surface (3) Protein with intrinsically disordered regions (4) Protein with no post-translational modifications <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|---|-----|------|

Objective Question

| | | | | |
|-----|-------|--|-----|------|
| 184 | 12184 | <p>BLAST is popular tool to search for sequences similar to a given sequence (query) against a given database, and it often sorts resulting matches according to the e-value. Which one of the following statements is INCORRECT with respect to this e-value?</p> <ol style="list-style-type: none"> (1) Its value depends on the length of the query sequence (2) Its value depends on the size of the database (3) It reduces exponentially as the pairwise alignment score increases (4) If the e-value approaches zero, the probability that the alignment occurred by chance is greater <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|--|-----|------|

Objective Question

| | | | | |
|-----|-------|---|-----|------|
| 185 | 12185 | <p>Johne's disease in ruminants is caused by</p> <ol style="list-style-type: none"> (1) <i>Mycobacterium bovis</i> (2) <i>Mycobacterium tuberculosis</i> (3) <i>Mycobacterium avium paratuberculosis</i> (4) <i>Mycobacterium orygis</i> <p>A1 : 1 A2 : 2 A3 : 3 A4 : 4</p> | 3.0 | 1.00 |
|-----|-------|---|-----|------|

| Objective Question | | | |
|--------------------|-------|---|-------------|
| 186 | 12186 | <p>Prolactin, the hormone that controls milk production is secreted by</p> <p>(1) Anterior pituitary gland (2) Mammary gland</p> <p>(3) Thyroid (4) Ovary</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 1.00 |
| Objective Question | | | |
| 187 | 12187 | <p>One health approach to address the challenge of Anti-microbial resistance involves addressing</p> <p>(1) one disease at a time (2) metabolic disorder</p> <p>(3) nosocomial infections (4) zoonotic infections</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 1.00 |
| Objective Question | | | |
| 188 | 12188 | <p>Somatic cell cloning involves transfer of</p> <p>(1) nucleus from ovum to somatic cell</p> <p>(2) nucleus from somatic cell to ovum</p> <p>(3) cytoplasm from somatic cell to ovum</p> <p>(4) mitochondria from somatic cell to ovum</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 1.00 |
| Objective Question | | | |
| 189 | 12189 | | 3.0 1.00 |

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| | | | | |
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| | | <p>Sperm production is regulated by which one of the following cells of the seminiferous tubules</p> <p>(1) Basal lamina propria (2) Leydig cells</p> <p>(3) Beta cells (4) Sertoli cells</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | | |
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|--------------------|-------|---|-----|------|
| Objective Question | | | | |
| 190 | 12190 | <p>Ozone depletion is caused by increase in the level of</p> <p>(1) H₂O Vapors (2) Oxygen (O₂)</p> <p>(3) Chlorofluorocarbon (CFC) (4) Carbon mono-oxide (CO)</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |

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|--------------------|-------|--|-----|------|
| Objective Question | | | | |
| 191 | 12191 | <p>The efficiency of an organic sludge composting method can be improved by various physicochemical options. Which one of the following is NOT a recommended option for the same?</p> <p>(1) Mixing</p> <p>(2) Forcing air through the biomass</p> <p>(3) Shredding the material to enhance the surface area</p> <p>(4) Adding water to the biomass to increase the water activity (a_w) > 1</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |

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| Objective Question | | | | |
| 192 | 12192 | | 3.0 | 1.00 |

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| | | <p>A bacterium useful in bioleaching of low-grade mineral ores is</p> <p>(1) <i>Bacillus megaterium</i> (2) <i>Thiobacillus ferrooxidans</i></p> <p>(3) <i>Thermus aquaticus</i> (4) <i>Rhodospseudomonas capsulatus</i></p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | | |
|--|--|--|--|--|

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|--------------------|-------|--|-----|------|
| Objective Question | | | | |
| 193 | 12193 | <p>Which of the following is NOT a ground water remediation technology?</p> <p>(1) Pump-and-Treat systems (2) Soil Vapour Extraction</p> <p>(3) Permeable Reactive Barriers (4) Sludge Treatment</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |

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|--------------------|-------|--|-----|------|
| Objective Question | | | | |
| 194 | 12194 | <p>Find the theoretical oxygen demand to completely oxidize 1.67×10^{-3} M glucose solution ($C_6H_{12}O_6$) to CO_2 and H_2O.</p> <p>(1) 321 mg/L O_2 (2) 642 mg/L O_2</p> <p>(3) 162 mg/L O_2 (4) 321 g/L O_2</p> <p>A1 : 1</p> <p>A2 : 2</p> <p>A3 : 3</p> <p>A4 : 4</p> | 3.0 | 1.00 |

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|--------------------|-------|---|-----|------|
| Objective Question | | | | |
| 195 | 12195 | <p>What mass of CO_2 would be produced if 100 gm of butane (C_4H_{10}) is completely oxidized to CO_2 and H_2O?</p> <p>(1) 606 gm (2) 303 mg</p> <p>(3) 303 gm (4) 303 kg</p> <p>A1 : 1</p> | 3.0 | 1.00 |

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| | | | |
|--|-------------------------|------------------|--|
| | Collagen is a source of | | |
| | (1) Gelatin | (2) Agar | |
| | (3) Glucosamine | (4) Carbohydrate | |
| | A1 : 1 | | |
| | A2 : 2 | | |
| | A3 : 3 | | |
| | A4 : 4 | | |

Objective Question

| | | | | |
|-----|-------|--|---------------|------|
| 200 | 12200 | Which of the following bioactive metabolites can be isolated from sea cucumbers? | 3.0 | 1.00 |
| | | (1) Acrydine | (2) Quinone | |
| | | (3) Saponine | (4) Saffranin | |
| | | A1 : 1 | | |
| | | A2 : 2 | | |
| | | A3 : 3 | | |
| | | A4 : 4 | | |



**NATIONAL TESTING AGENCY
BIOTECHNOLOGY ELIGIBILITY TEST (2024)**

| EXAM DATE | 20.04.2024 | | | | SHIFT | II |
|-------------|----------------|-------------|----------------|-------------|----------------|----|
| Question ID | Correct Answer | Question ID | Correct Answer | Question ID | Correct Answer | |
| 12001 | 3 | 12035 | 4 | 12069 | 1 | |
| 12002 | 3 | 12036 | 1 | 12070 | 2,4 | |
| 12003 | 3 | 12037 | 3 | 12071 | 3 | |
| 12004 | 3 | 12038 | 2 | 12072 | 2 | |
| 12005 | 2 | 12039 | 2 | 12073 | 3 | |
| 12006 | 1 | 12040 | 4 | 12074 | 1 | |
| 12007 | 4 | 12041 | 3 | 12075 | 1 | |
| 12008 | 4 | 12042 | 2 | 12076 | 4 | |
| 12009 | 3 | 12043 | 3 | 12077 | 3 | |
| 12010 | 1 | 12044 | 1 | 12078 | 3 | |
| 12011 | 2 | 12045 | 4 | 12079 | 2 | |
| 12012 | 3 | 12046 | 3 | 12080 | 1 | |
| 12013 | 1 | 12047 | 2 | 12081 | 3 | |
| 12014 | 1 | 12048 | 3 | 12082 | 1 | |
| 12015 | 4 | 12049 | 2 | 12083 | 3 | |
| 12016 | 1 | 12050 | 2 | 12084 | 2,3 | |
| 12017 | 2 | 12051 | 2 | 12085 | 1 | |
| 12018 | 2 | 12052 | 1 | 12086 | 1 | |
| 12019 | 3 | 12053 | 2 | 12087 | 2 | |
| 12020 | 2 | 12054 | 2 | 12088 | 1 | |
| 12021 | 3 | 12055 | 3 | 12089 | 1 | |
| 12022 | 4 | 12056 | 3 | 12090 | 2 | |
| 12023 | 4 | 12057 | 2 | 12091 | 2 | |
| 12024 | 4 | 12058 | 3 | 12092 | 3 | |
| 12025 | 1 | 12059 | 1 | 12093 | 1 | |
| 12026 | 3 | 12060 | 3 | 12094 | 1 | |
| 12027 | 1 | 12061 | 3 | 12095 | 4 | |
| 12028 | 4 | 12062 | 2 | 12096 | 4 | |
| 12029 | 2 | 12063 | 2 | 12097 | 2 | |
| 12030 | 3 | 12064 | 1 | 12098 | 3 | |
| 12031 | 1 | 12065 | 1 | 12099 | 4 | |

| | | | | | |
|-------|---|-------|---|-------|---|
| 12032 | 1 | 12066 | 1 | 12100 | 4 |
| 12033 | 2 | 12067 | 4 | 12101 | 2 |
| 12034 | 3 | 12068 | 2 | 12102 | 1 |



| Question ID | Correct Answer | Question ID | Correct Answer | Question ID | Correct Answer |
|-------------|----------------|-------------|----------------|-------------|----------------|
| 12103 | 2 | 12137 | 4 | 12171 | 3 |
| 12104 | 3 | 12138 | 4 | 12172 | 4 |
| 12105 | 3 | 12139 | 4 | 12173 | 2 |
| 12106 | 3 | 12140 | 3 | 12174 | 1 |
| 12107 | 2 | 12141 | 3 | 12175 | 3 |
| 12108 | 3 | 12142 | 4 | 12176 | 3 |
| 12109 | 1 | 12143 | 1 | 12177 | 4 |
| 12110 | 4 | 12144 | 3 | 12178 | 2 |
| 12111 | 3 | 12145 | 3 | 12179 | 2 |
| 12112 | 4 | 12146 | 1 | 12180 | 1 |
| 12113 | 4 | 12147 | 4 | 12181 | 2 |
| 12114 | 1 | 12148 | 3 | 12182 | 3 |
| 12115 | 2 | 12149 | 2 | 12183 | 3 |
| 12116 | 2 | 12150 | 2 | 12184 | 4 |
| 12117 | 3 | 12151 | 3 | 12185 | 3 |
| 12118 | 2 | 12152 | 2 | 12186 | 1 |
| 12119 | 1 | 12153 | 1 | 12187 | 4 |
| 12120 | 4 | 12154 | 2 | 12188 | 2 |
| 12121 | 3 | 12155 | 2 | 12189 | 4 |
| 12122 | 2 | 12156 | 1 | 12190 | 3 |
| 12123 | 3 | 12157 | 4 | 12191 | 4 |
| 12124 | 4 | 12158 | 1 | 12192 | 2 |
| 12125 | 3 | 12159 | 1 | 12193 | 4 |
| 12126 | 3 | 12160 | 4 | 12194 | 1 |
| 12127 | 2 | 12161 | 4 | 12195 | 3 |
| 12128 | 4 | 12162 | 3 | 12196 | 3 |
| 12129 | 2 | 12163 | 3 | 12197 | 4 |
| 12130 | 2 | 12164 | 2 | 12198 | 3 |
| 12131 | 3 | 12165 | 3 | 12199 | 1 |
| 12132 | 4 | 12166 | 2 | 12200 | 3 |
| 12133 | 2 | 12167 | 4 | | |
| 12134 | 2 | 12168 | 1 | | |

12135

3

12169

3

12136

2

12170

1

