

National Testing Agency

Question Paper Name: Biochemistry and Cell Biology
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Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes

Biochemistry and Cell Biology

Group Number : 1
Group Id : 41652971
Group Maximum Duration : 0
Group Minimum Duration : 120
Revisit allowed for view? : No
Revisit allowed for edit? : No
Break time: 0
Group Marks: 100

Biochemistry and Cell Biology

Section Id : 41652971
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 100
Number of Questions to be attempted: 100
Section Marks: 100
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 41652972
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 4165295766 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ribose and deoxyribose differ in structure around a single carbon, namely:

- A. C₁
- B. C₂
- C. C₃
- D. C₄

Question Number : 2 Question Id : 4165295767 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following microscope has an additional optical device to increase contrast between specimen and background?

- A. Bright field
- B. Flourescence
- C. Phase Contrast
- D. Dark field

Question Number : 3 Question Id : 4165295768 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The glycosaminoglycan that serves as an anticoagulant is:

- A. Heparin
- B. Hyaluronic acid
- C. Chondroitin sulphate
- D. None of the options

Question Number : 4 Question Id : 4165295769 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

At what checkpoint cell growth is controlled

- A. G2
- B. G1
- C. Both A and B
- D. None of the options

Question Number : 5 Question Id : 4165295770 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

One of the following is not a monosaccharide:

- A. Galactose
- B. Fructose
- C. Glucose
- D. Lactose

Question Number : 6 Question Id : 4165295771 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Amylopectin contains:

- A. α 1→4 glycosidic bond
- B. α 1→6 glycosidic bond
- C. Both α 1→4 and α 1→6 glycosidic bonds
- D. None of the options

Question Number : 7 Question Id : 4165295772 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Peptidoglycan is an example of:

- A. Homopolysaccharide
- B. Heteropolysaccharide
- C. Monosaccharide
- D. None of the options

Question Number : 8 Question Id : 4165295773 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

To possess optical activity, a compound must be:

- A. A carbohydrate
- B. A hexose
- C. Asymmetric
- D. Symmetric

Question Number : 9 Question Id : 4165295774 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The reference compound for naming D and L isomers of sugars is:

- A. Fructose
- B. Glucose
- C. Mannose
- D. Glyceraldehyde

Question Number : 10 Question Id : 4165295775 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When two carbohydrates are epimers:

- A. One is pyranose, the other a furanose
- B. One is an aldose, the other a ketose
- C. They differ only in configuration around one carbon atom
- D. None of the options

Question Number : 11 Question Id : 4165295776 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Greater resolution can be obtained at:

- A. Shorter wavelength
- B. Longer wavelength
- C. Not affected by wavelength
- D. None of the options

Question Number : 12 Question Id : 4165295777 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The microscope which visualizes objects that emit light of a different wavelength as compared to that it absorbs is:

- A. Fluorescence
- B. Phase Contrast
- C. Dark Field
- D. Bright field

Question Number : 13 Question Id : 4165295778 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Compounds having same structural formula, but differing in spatial configuration are known as:

- A. Stereoisomers
- B. Anomers
- C. Epimers
- D. None of the options

Question Number : 14 Question Id : 4165295779 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The principal source of energy in the body are:

- A. Carbohydrates
- B. Protein
- C. Lipids
- D. Vitamins

Question Number : 15 Question Id : 4165295780 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Table sugar is:

- A. Glucose
- B. Mannose
- C. Fructose
- D. Sucrose

Question Number : 16 Question Id : 4165295781 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The sugar found in milk is:

- A. Lactose
- B. Maltose
- C. Galactose
- D. None of the options

Question Number : 17 Question Id : 4165295782 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The primary form of sugar that enters the bloodstream and is metabolized in the body is:

- A. Glucose
- B. Maltose
- C. Sucrose
- D. Fructose

Question Number : 18 Question Id : 4165295783 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Following are the stored forms of carbohydrates:

- A. Starch and glycogen
- B. Starch and glucose
- C. Glycogen and glucose
- D. Glucose and fructose

Question Number : 19 Question Id : 4165295784 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Phospholipids are molecules that contain:

- A. Positively charged functional groups
- B. Long water-soluble carbon chains.
- C. Hydrophilic heads and hydrophobic tails.
- D. None of the options

Question Number : 20 Question Id : 4165295785 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Cholesterol is essential for normal membrane functions because it:

- A. Cannot be made by higher organisms, e.g. mammals.
- B. Spans the thickness of the bilayer
- C. Keeps membranes fluid
- D. None of the options

Question Number : 21 Question Id : 4165295786 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is a unsaturated fatty acid?

- A. Palmitic acid
- B. Stearic acid
- C. Linoleic acid
- D. None of the options

Question Number : 22 Question Id : 4165295787 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Liquid form of triglycerides at ordinary room temperature are called:

- A. Oils
- B. Solids
- C. Fats
- D. None of the options

Question Number : 23 Question Id : 4165295788 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Fats and oils are respectively rich in:

- A. Unsaturated fatty acids and unsaturated fatty acids
- B. Saturated fatty acids and unsaturated fatty acids
- C. Unsaturated fatty acids and saturated fatty acids
- D. None of the options

Question Number : 24 Question Id : 4165295789 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The functionally active form of vitamin D is:

- A. Cholecalciferol
- B. Ergocalciferol
- C. Calcitriol
- D. None of the options

Question Number : 25 Question Id : 4165295790 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The fat soluble vitamin required for carboxylation reaction is:

- A. Vitamin A
- B. Vitamin K
- C. Vitamin E
- D. None of the options

Question Number : 26 Question Id : 4165295791 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ninhydrin is used to detect the presence of:

- A. Amino acids
- B. Sugars
- C. Vitamins
- D. Fats

Question Number : 27 Question Id : 4165295792 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Night blindness is resulted due to deficiency of: B45

- A. Vitamin A
- B. Vitamin E
- C. Vitamin K
- D. Vitamin C

Question Number : 28 Question Id : 4165295793 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Vitamin D regulates the plasma level of:

- A. Calcium and phosphate
- B. Sodium and phosphate
- C. Potassium and phosphate
- D. None of the options

Question Number : 29 Question Id : 4165295794 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The functionally active form of vitamin D is:

- A. Cholecalciferol
- B. Ergocalciferol
- C. Calcitriol
- D. None of the options

Question Number : 30 Question Id : 4165295795 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The fat soluble vitamin required for carboxylation reaction is:

- A. Vitamin A
- B. Vitamin K
- C. Vitamin E
- D. None of the options

Question Number : 31 Question Id : 4165295796 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In Thin layer chromatography, mobile phase is:

- A. Solvent
- B. Silica gel
- C. Paper
- D. None of the options

Question Number : 32 Question Id : 4165295797 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Night blindness is resulted due to deficiency of:

- A. Vitamin A
- B. Vitamin E
- C. Vitamin K
- D. Vitamin

Question Number : 33 Question Id : 4165295798 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Thin layer chromatography can be used to distinguish between different amino acids. If a particular amino acid has low solubility in the mobile phase used, then the amino acid:

- A. Will move at a speed close to that of the solvent
- B. Must have a high molecular mass
- C. Will have high R_f value
- D. Will have a low R_f value

Question Number : 34 Question Id : 4165295799 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

FMN and FAD are the coenzyme forms of:

- A. Thiamine
- B. Riboflavin
- C. Pyridoxine
- D. None of the options

Question Number : 35 Question Id : 4165295800 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Coenzyme A is derived from:

- A. Pantothenic acid
- B. Ascorbic acid
- C. Nicotinic acid
- D. None of the options

Question Number : 36 Question Id : 4165295801 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sulphur containing vitamin is:

- A. Biotin
- B. Niacin
- C. Retinol
- D. None of the options

Question Number : 37 Question Id : 4165295802 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Three components of folic acid are:

- A. Pteridine ring, p-amino benzoic acid and glutamate
- B. Pteridine ring, p-amino benzoic acid and aspartate
- C. Pyrimidine ring, p-amino benzoic acid and glutamate
- D. None of the options

Question Number : 38 Question Id : 4165295803 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pyruvate dehydrogenase complex catalyzes the conversion of pyruvate into:

- A. Lactate
- B. Oxaloacetate
- C. Malate
- D. Acetyl CoA

Question Number : 39 Question Id : 4165295804 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The disease beri-beri is resulted due to deficiency of:

- A. Vitamin B₁
- B. Vitamin B₆
- C. Vitamin B₁₂
- D. None of the options

Question Number : 40 Question Id : 4165295805 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The cause of Wernicke-Korsakoff syndrome is:

- A. Deficiency of pantothenic acid
- B. Deficiency of thiamine
- C. Deficiency of niacin
- D. None of the options

Question Number : 41 Question Id : 4165295806 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

FMN and FAD are the coenzyme forms of vitamin:

- A. Carotene
- B. Thiamine
- C. Pyridoxine
- D. Riboflavin

Question Number : 42 Question Id : 4165295807 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pellagra preventive factor is vitamin:

- A. Niacin
- B. Biotin
- C. Pyridoxine
- D. Thiamine

Question Number : 43 Question Id : 4165295808 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The coenzyme involved in one carbon metabolism is:

- A. Tetrahydrofolate
- B. Methylcobalamin
- C. Deoxyadenosylcobalamin
- D. None of the options

Question Number : 44 Question Id : 4165295809 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Aminopterin and amethopterin act as antagonist of:

- A. Vitamin C
- B. Folic acid
- C. Vitamin B12
- D. None of the options

Question Number : 45 Question Id : 4165295810 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ion exchange chromatography is based on the:

- A. Electrostatic attraction
- B. Electrical mobility of ionic species
- C. Adsorption chromatography
- D. Polarity

Question Number : 46 Question Id : 4165295811 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pernicious anaemia is caused due to deficiency of:

- A. Vitamin C
- B. Vitamin B1
- C. Vitamin B12
- D. Vitamin D

Question Number : 47 Question Id : 4165295812 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

One of the strong antioxidants is:

- A. Folic acid
- B. Carotene
- C. Ascorbic acid
- D. None of the options

Question Number : 48 Question Id : 4165295813 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The parts of amino acids which are involved in peptide bonds are:

- A. The carboxyl group on one amino acid and the side chain on the other
- B. The carboxyl group on both amino acids
- C. The amino group on one amino acid and the carboxyl group on the other
- D. None of the options

Question Number : 49 Question Id : 4165295814 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The part of an amino acid which gives it its unique properties is:

- A. The amino group
- B. The carboxyl group
- C. The side chain
- D. None of the options

Question Number : 50 Question Id : 4165295815 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not used for detection in column chromatography?

- A. Infrared spectroscopy
- B. NMR
- C. Polarimeter
- D. All of these

Question Number : 51 Question Id : 4165295816 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The type of bonding which is responsible for the secondary structure of proteins is:

- A. Disulphide bridges between cysteine residues.
- B. Hydrophobic bonds
- C. Peptide bonds between amino acids.
- D. Hydrogen bonding between the C=O and N-H groups of peptide bonds.

Question Number : 52 Question Id : 4165295817 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statements about collagen is correct?

- A. Collagen contains a high proportion of hydroxylated proline residues.
- B. Collagen is a globular, intracellular protein.
- C. Post-translational modification of collagen involves vitamin A.
- D. None of the options

Question Number : 53 Question Id : 4165295818 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Source of UV radiation is:

- A. Deuterium arc lamp
- B. Tungsten lamp
- C. Nernst glower
- D. None of the options

Question Number : 54 Question Id : 4165295819 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A nucleoside is composed of :

- A. A base + a sugar
- B. base + Sugar + phosphate
- C. base + phosphate
- D. None of the options

Question Number : 55 Question Id : 4165295820 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

DNA is present in:

- A. Nucleus only
- B. Nucleus, mitochondria and endoplasmic reticulum
- C. Nucleus, mitochondria and chloroplast
- D. None of the options

Question Number : 56 Question Id : 4165295821 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The 2 strands in a DNA double helix are joined by:

- A. Covalent bond
- B. Phosphodiester bond
- C. Phosphoanhydride bond
- D. H₂ bond

Question Number : 57 Question Id : 4165295822 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Chromatin is composed of:

- A. Nucleic acid & protein
- B. Nucleic acids only
- C. Proteins only
- D. None of the options

Question Number : 58 Question Id : 4165295823 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Prism show more dispersion in the:

- A. UV region
- B. Visible region
- C. Infra red region
- D. All of these

Question Number : 59 Question Id : 4165295824 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Adjacent nucleotides are joined by:

- A. Covalent bond
- B. Phosphodiester bond
- C. Ionic bond
- D. Phosphoanhydride bond

Question Number : 60 Question Id : 4165295825 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The width of DNA molecule is:

- A. 15 \AA
- B. 3.4 \AA
- C. 20 \AA
- D. 30 \AA

Question Number : 61 Question Id : 4165295826 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Left handed DNA is:

- A. A-DNA
- B. B-DNA
- C. Z-DNA
- D. None of the options

Question Number : 62 Question Id : 4165295827 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A short length of DNA molecule has 80 thymine and 80 guanine bases. The total number of nucleotides in the DNA fragment is:

- A. 160
- B. 40
- C. 220
- D. 320

Question Number : 63 Question Id : 4165295828 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the percentage of adenine in a DNA sample is 20%, the percentage of other bases would be:

- A. T=30%, G=20%, C=30%
- B. T=20%, G=20%, C=40%
- C. T=40%, G=20%, C=20%
- D. T=20%, G=30%, C=30%

Question Number : 64 Question Id : 4165295829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The pyrimidine which replaces Thymine in case of RNA is:

- A. Uracil
- B. Cytosine
- C. Pseudouridine
- D. None of the options

Question Number : 65 Question Id : 4165295830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Codon, the three bases combination system codes for:

- A. Gene
- B. Amino acid
- C. Protein
- D. Enzyme

Question Number : 66 Question Id : 4165295831 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Enzyme involved in making RNA from DNA is:

- A. DNA polymerase
- B. RNA polymerase
- C. Nuclease
- D. None of the options

Question Number : 67 Question Id : 4165295832 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If mRNA reads UGC, the anticodon would be:

- A. TCG
- B. AGC
- C. ACG
- D. UGC

Question Number : 68 Question Id : 4165295833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of these have polycistronic RNA?

- A. Prokaryotes
- B. Eukaryotes
- C. Both
- D. none

Question Number : 69 Question Id : 4165295834 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Enzyme which catalyzes transfer of functional groups other than hydrogen between a pair of substrates is:

- A. Transferase
- B. Oxygenases
- C. Dehydrogenases
- D. Kinases

Question Number : 70 Question Id : 4165295835 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Function of β -mercaptoethanol in SDS-PAGE is:

- A. To give negative charges to amino acids in the proteins
- B. For the oxidation of disulfide bonds in the proteins
- C. For the reduction of disulfide bonds in the proteins
- D. To break hydrogen bonds

Question Number : 71 Question Id : 4165295836 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The enzyme which splits terminal peptide linkage splitting one amino acid at a time is:

- A. Esterases
- B. Endopeptidases
- C. Exopeptidases
- D. Transferases

Question Number : 72 Question Id : 4165295837 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Enzymes that link two molecules using energy from ATP are:

- A. Lyases
- B. Hydrolase
- C. Ligase
- D. Kinase

Question Number : 73 Question Id : 4165295838 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The role of urea in PAGE separation of DNA is to:

- A. Act as anion
- B. Act as cation
- C. Help to denature the DNA
- D. None of the options

Question Number : 74 Question Id : 4165295839 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the function of enzymes within living system?

- A. Structural elements
- B. Catalysts
- C. Hormones
- D. Vitamins

Question Number : 75 Question Id : 4165295840 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Some enzymes require the presence of a non-protein substance if they are to catalyse a reaction. The best general term for such a substance is:

- A. Prosthetic group
- B. Cofactor
- C. Co-enzyme
- D. None of the options

Question Number : 76 Question Id : 4165295841 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The cell structure that produces lipids or fats is:

- A. Rough endoplasmic reticulum
- B. Smooth endoplasmic reticulum
- C. Golgi apparatus
- D. None of the options

Question Number : 77 Question Id : 4165295842 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The function of rough endoplasmic reticulum is to synthesize:

- A. Lipid
- B. Carbohydrate
- C. Protein that will be secreted by the cell
- D. Nucleic acids

Question Number : 78 Question Id : 4165295843 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The organ which is called as "traffic police" of cells is:

- A. Endoplasmic reticulum
- B. Mitochondria
- C. Chloroplasts
- D. Golgi apparatus

Question Number : 79 Question Id : 4165295844 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statements regarding enzymes is false?

- A. Enzymes are specific
- B. Enzymes provide activation energy for reactions
- C. Enzymes are catalytic proteins
- D. None of the options

Question Number : 80 Question Id : 4165295845 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

One would expect a cell with an extensive Golgi apparatus to:

- A. Make a lot of ATP
- B. Secrete a lot of material
- C. Move actively
- D. None of the options

Question Number : 81 Question Id : 4165295846 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Membrane-bounded vesicles that contain enzymes for oxidizing small organic molecules with the formation of hydrogen peroxide are:

- A. Vacuoles
- B. Lysosomes
- C. Glyoxisomes
- D. Nucleus

Question Number : 82 Question Id : 4165295847 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When lysosomes burst and release their contents into the cell, it would be expected that they would:

- A. Undergo self-digestion and die
- B. Recycle damaged organelles
- C. Produce replacement lysosomes
- D. None of the options

Question Number : 83 Question Id : 4165295848 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Enzymes of the lysosomes function in the following, except:

- A. Phagocytosis
- B. Autophagy
- C. Work better in basic (alkaline) medium
- D. None of the options

Question Number : 84 Question Id : 4165295849 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ribosomes are made up of how many units?

- A. 2
- B. 3
- C. 0 (They are whole)
- D. 4

Question Number : 85 Question Id : 4165295850 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

An activated enzyme made of polypeptide chain and a co-factor is termed as:

- A. Coenzyme
- B. Apoenzyme
- C. Holoenzyme
- D. Allosteric enzyme

Question Number : 86 Question Id : 4165295851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

One of the following is a mismatch concerning ribosome:

- A. Membrane-bound ribosomes—secretory proteins
- B. Bound ribosomes—nuclear outer membrane
- C. Free ribosomes—secretory proteins
- D. All of them

Question Number : 87 Question Id : 4165295852 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The cell which lacks cytoskeleton is:

- A. Eukaryotic plant cell
- B. Prokaryotic bacterial cell
- C. Prokaryotic cells and eukaryotic animal cells
- D. None of the options

Question Number : 88 Question Id : 4165295853 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Cytoskeletons are chemically:

- A. Nucleoprotein filaments
- B. Protein filaments
- C. Ribonucleoprotein filaments
- D. All of the options

Question Number : 89 Question Id : 4165295854 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ is a microtubule associated protein.

- A. tub protein
- B. G protein
- C. tau protein
- D. None of the options

Question Number : 90 Question Id : 4165295855 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Number of Mitochondria depends on:

- A. Size of cell
- B. pH of cell
- C. Functional state of cell
- D. All of the options

Question Number : 91 Question Id : 4165295856 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The dye used to visualize mitochondria in a cell is:

- A. Acetocarmine
- B. Haematoxylin
- C. Janus green B
- D. All of the options

Question Number : 92 Question Id : 4165295857 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Water insoluble enzymes can be prepared by using multifunctional agents that are bifunctional in nature and have:

- A. Low molecular weight
- B. High molecular weight
- C. Low reactivity
- D. None of the options

Question Number : 93 Question Id : 4165295858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The medium that is used for the production of penicillin using immobilized cells is:

- A. 1% peptone medium
- B. Glucose medium
- C. Yeast extract medium
- D. None of the options

Question Number : 94 Question Id : 4165295859 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following pathways do not occur in Mitochondria:

- A. Krebs cycle
- B. Glycolysis
- C. Electron Transport Chain
- D. None of the options

Question Number : 95 Question Id : 4165295860 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is NOT a characteristic of an animal plasma membrane?

- A. Provides mechanical strength
- B. Provides mechanical shape
- C. Responsible for the synthesis of ATP
- D. Is fluid in nature

Question Number : 96 Question Id : 4165295861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The fluid-mosaic model of the plasma membrane structure is best described by:

- A. Phospholipid monolayer with embedded proteins
- B. Phospholipid bilayer with embedded proteins
- C. Phospholipid trilayer with embedded proteins
- D. Only phospholipid bilayer

Question Number : 97 Question Id : 4165295862 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Light stained and diffused region of chromatin is known as:

- A. Heterochromatin
- B. Euchromatin
- C. None of the options
- D. Heterochromatin & Euchromatin

Question Number : 98 Question Id : 4165295863 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Balbani rings occur in:

- A. Lampbrush chromosomes
- B. Polytene chromosomes
- C. Heterosomes
- D. Telomere

Question Number : 99 Question Id : 4165295864 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The refractive index of air is:

- A. 0.5
- B. 1.0
- C. 1.25
- D. 1.50

Question Number : 100 Question Id : 4165295865 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Smooth endoplasmic reticulum:

- A. Has ribosomes attached to its membranes
- B. Is present in cells where drug detoxification is taking place
- C. Participate in protein sorting
- D. None of the options