Banaras Hindu University

Question Paper Name:	488 23rd May 2019 Shift 2
Subject Name:	488
Creation Date:	2019-05-23 18:23:29
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Share Answer Key With Delivery Engine:	Yes
Actual Answer Key:	Yes

MSc Applied Microbiology

Group Number :	1
Group Id :	65898814
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	360

MSc Applied Microbiology

Section Id :	65898814
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	120
Number of Questions to be attempted:	120
Section Marks:	360
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	65898814
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 6589881441 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In the lysogenic state of lambda phage :

Options :

1. Both Cl and Cro are on

2. Both Cl and Cro are off

3. Cl is on while Cro is off

4. Cl is off while Cro is on

Question Number : 2 Question Id : 6589881442 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following can utilize light energy for synthesis of ATP ?

Options :

1. Slime molds

2. *Cephaleuros*

3. Yeast

4. Thermoacidophils

Question Number : 3 Question Id : 6589881443 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Fertility factor possessing chromosomal gene is known as :

Options :

1. F factor

2. F' factor

3. Hfr

4. R factor

Question Number : 4 Question Id : 6589881444 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following bacterium is acid fast ?

Options :

1. Actinomycetes

2. *Streptomyces*

3. *Nocardia*

4. *Pseudomonas*

Question Number : 5 Question Id : 6589881445 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In bacteria, heat-sock response is primarily controlled by :

Options :

1. Sigma S (σ^S)

2. Sigma 32 (σ^{32})

3. Sigma E (σ^E)

4. Sigma 70 (σ^{70})

Question Number : 6 Question Id : 6589881446 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Who coined the term bacteriophage for the first time ?

Options :

1. Beijernick

2. Tautam

3. De' Herelle

4. Pasteur

Question Number : 7 Question Id : 6589881447 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following vector(s) was extensively used in human genome project ?

Options :

1. Plasmid vector

2. Yeast Artificial Chromosome

3. Cosmid vector

4. Both Yeast Artificial Chromosome and Cosmid vector

Question Number : 8 Question Id : 6589881448 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of these ecosystems has the lowest primary productivity per square meter ?

Options :

1. A salt marsh

2. A grass land

3. An open ocean

4. A tropical rain forest

Question Number : 9 Question Id : 6589881449 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Cement factory workers are prone to :

Options :

1. Bone marrow disease

2. Cytosilicosis

3. Leukemia

4. Asbestosis

Question Number : 10 Question Id : 6589881450 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

IUCN (The International Union For Conservation Of Nature And Natural Resources) headquarter is at :

Options :

1. Paris, France

2. Vienna, Austria

3. New York, USA

4. Morges, Switzerland

Question Number : 11 Question Id : 6589881451 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following vitamins is precursor of coenzyme that is required in enzymatic reactions involving transfer of acyl groups ?

Options :

1. Lipoic Acid

2. Biotin

3. P-aminobenzoic Acid

4. Riboflavin

Question Number : 12 Question Id : 6589881452 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Reaction products inhibit catalysis in the enzymes by :

Options :

1. Covalently binding with the enzyme

2. Altering the enzyme structure

3. Occupying the active site

4. Form a complex with the substrate

Question Number : 13 Question Id : 6589881453 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following statement is true about non-competitive inhibition ?

Options :

1. K_m increases

2. K_m decreases

3. V_{max} increases

4. V_{max} decreases

Question Number : 14 Question Id : 6589881454 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A bioinforamtics tool used to find the sequence similarity in the subunits of the hemoglobin is :

Options :

1. FASTA

2. BLAST

3. HUMMER

4. PSI:PLOT

Question Number : 15 Question Id : 6589881455 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Backbone of both DNA and RNA are :

Options :

1. Hydrophobic

2. Hydrophilic

3. Neutral

4. Both hydrophilic and hydrophobic

Question Number : 16 Question Id : 6589881456 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

RNA-DNA hybrids are :

Options :

1. More stable than RNA-RNA hybrids

2. Less stable than DNA-DNA hybrids

3. Unstable

4. Less stable than RNA-RNA hybrids and more stable than DNA-DNA hybrids

Question Number : 17 Question Id : 6589881457 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Stomatal opening in a leaf :

Options :

1. Involves closing of K^+ channels

2. Occurs in the dark

3. Occurs when there is an increase in turgor pressure in the guard cells

4. Occurs in response to abscissic acid

Question Number : 18 Question Id : 6589881458 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

One among the following elements is very important cofactor in the water oxidizing process :

Options :

1. Mg

2. Mn

3. Fe

4. Zn

Question Number : 19 Question Id : 6589881459 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

How many ATP molecules can be derived from each molecule of acetyl-CoA that enters the Kreb's cycle (consider 1 NADH and I $FADH_2$ gives 3 and 2 ATP, respectively) ?

Options :

1. 6

2. 12

3. 18

4. 38

Question Number : 20 Question Id : 6589881460 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

BAC used to clone large DNA fragments, is derived from :

Options :

1. ColE plasmid

2. F plasmid

3. P_1 Phage

4. Mu phage

Question Number : 21 Question Id : 6589881461 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The distribution of transmembrane protein in the plane of a cell membrane can best be visualized by which of the following ?

Options :

1. Thin-section electron microscopy

2. Freeze-fracture electron microscopy

3. Scanning electron microscopy

4. SDS gel electrophoresis

Question Number : 22 Question Id : 6589881462 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is found only in plants cell ?

Options :

1. Tight junctions

2. Gap junctions

3. Desmosomes

4. Plasmodesmata

Question Number : 23 Question Id : 6589881463 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A mouse in which one particular gene has been replaced by its inactivated form generated *in vitro* is called :

Options :

1. Transgenic mouse

2. Nude mouse

3. Knockout mouse

4. Mutant mouse

Question Number : 24 Question Id : 6589881464 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following compound does not act as secondary messenger during signaling process ?

Options :

1. cAMP

2. Calcium ions

3. Inositol 3, 4, 5-triphosphate

4. Triacylglycerol

Question Number : 25 Question Id : 6589881465 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a dividing cell, DNA synthesis goes through only one round and is arrested due to :

Options :

1. Specific cyclin protein

2. Specific cyclin protein along with Cdc2 protein kinase

3. Cdc2 protein kinase

4. G protein with Cdc2 protein kinase

Question Number : 26 Question Id : 6589881466 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Movement of a segment of DNA from one site of the genome to another is called :

Options :

1. Mutation

2. Cleavage

3. Reversion

4. Transposition

Question Number : 27 Question Id : 6589881467 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The rate of migration of a protein in an SDS-Polyacrylamide gel is not influenced by :

Options :

1. Size of protein

2. Charge of the protein

3. Pore size of the gel

4. Strength of the electric field

Question Number : 28 Question Id : 6589881468 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is most common approach for the determination of precise 3-D structure of globular proteins ?

Options :

1. Circular dichroism

2. Mass spectroscopy

3. Infrared spectroscopy

4. X-ray diffraction

Question Number : 29 Question Id : 6589881469 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

'Kozak' is associated with :

Options :

1. Transcription

2. DNA replication

3. DNA repair

4. Translation

Question Number : 30 Question Id : 6589881470 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Photoreactivation :

Options :

1. Repairs dimer in DNA using an endonuclease

2. Uses light to activate repair enzymes

3. Removes alkylating agents from bases

4. Deaminate bases

Question Number : 31 Question Id : 6589881471 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a trisomic individual the number of chromosomes is :

Options :

1. 2n-1

2. $2n+2$

3. $2n+3$

4. $2n+1$

Question Number : 32 Question Id : 6589881472 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is the smallest cellular structure ?

Options :

1. Mitochondria

2. Plant vacuole

3. Chloroplast granum

4. Ribosome

Question Number : 33 Question Id : 6589881473 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following organelles digests the old organelles that are no longer required to the cells ?

Options :

1. Lysosomes

2. Mitochondria

3. Ribosomes

4. Chromatin

Question Number : 34 Question Id : 6589881474 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If the genotype consists of only one type of allele, it is called :

Options :

1. Uniallelic

2. Heterozygous

3. Momoallelic

4. Homozygous

Question Number : 35 Question Id : 6589881475 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Characteristics that are passed to offspring from parents are called :

Options :

1. Phenotype

2. Allele

3. Chromatin design

4. Genotype

Question Number : 36 Question Id : 6589881476 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Lamp brush chromosomes are seen in :

Options :

1. Prophase

2. Meiotic prophase

3. Mitotic metaphase

4. Mitosis

Question Number : 37 Question Id : 6589881477 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is not required in PCR ?

Options :

1. Taq Polymerase

2. Restriction enzymes

3. Oligonucleotide primers

4. Deoxynucleoside triphosphates

Question Number : 38 Question Id : 6589881478 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Gene transfer in plants can be mediated through :

Options :

1. *Bacillus* sp.

2. *E. coli*

3. *Thermus aquaticus*

4. *Agrobacterium tumefaciens*

Question Number : 39 Question Id : 6589881479 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

First time vaccination was used by ?

Options :

1. Francisco Redi

2. Edward Jenner

3. Mullis

4. John Tyndall

Question Number : 40 Question Id : 6589881480 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Bacteria use reduced inorganic molecules as their energy and electron source but derive their carbon from organic sources are known as :

Options :

1. Photolithoautotrophs

2. Chemolithoheterotrophs

3. Photoorganoheterotrophs

4. Chemolithoautotrophs

Question Number : 41 Question Id : 6589881481 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Plasmids have the ability to integrate into the chromosome is known as :

Options :

1. Mesosomes

2. Episomes

3. Ribosomes

4. Metasomes

Question Number : 42 Question Id : 6589881482 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The bacterium capable of performing denitrification as a part of nitrogen cycle is :

Options :

1. *Psuedomonas*

2. *Nitrosomonas*

3. *Nitrobacter*

4. *Nitrosococcus*

Question Number : 43 Question Id : 6589881483 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The *lac* operon has :

Options :

1. Two operator sites

2. One operator sites

3. Four operator sites

4. Three operator sites

Question Number : 44 Question Id : 6589881484 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ethidium bromide acts as :

Options :

1. Alkylating agents

2. Base Analogues

3. Intercalating agents

4. 8-Azaguanine

Question Number : 45 Question Id : 6589881485 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Penicillin, which inhibits synthesis of bacterial cell wall (peptidoglycan), belongs to chemical class :

Options :

1. Aminoglycosides

2. β-lactam

3. Polypeptides

4. Tetracyclene

Question Number : 46 Question Id : 6589881486 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In cyanobacteria, carboxysomes have :

Options :

1. Maltase

2. Nitrogenase

3. Rubisco

4. Sucrase

Question Number : 47 Question Id : 6589881487 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Endotoxin is :

Options :

1. Protein and heat stable

2. Methane and lipopolysaccharide

3. Protein and lipopolysaccharide

4. Heat stable and lipopolysaccharide

Question Number : 48 Question Id : 6589881488 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following biologists discovered nucleus :

Options :

1. F. Meicher

2. R. Brown

3. J. D. Watson

4. J. Hammerling

Question Number : 49 Question Id : 6589881489 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The fluid in which chromosomes and nucleolus are present, enclosed in a nuclear membrane is :

Options :

1. Cytoplasm

2. Nucleoplasm

3. Chromoplasm

4. Periplasm

Question Number : 50 Question Id : 6589881490 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Nucleolus is very prominently visible during :

Options :

1. Metaphase stage

2. Interphase stage

3. Prophase stage

4. Telophase stage

Question Number : 51 Question Id : 6589881491 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following organelles is site of ribosome biosynthesis :

Options :

1. Endoplasmic reticulum

2. Golgi bodies

3. Nucleolus

4. Chloroplast

Question Number : 52 Question Id : 6589881492 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

What is true about heterochromatin :

Options :

1. It is lightly stained region of chromosomes

2. It is darkly stained region of chromosomes

3. The genes are active in this region

4. Pseudogenes are present in this region

Question Number : 53 Question Id : 6589881493 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The first stage of meiosis following Interphase is :

Options :

1. Zygotene

2. Pachytene

3. Leptotene

4. Diplotene

Question Number : 54 Question Id : 6589881494 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a dihybrid cross the F2 progeny shows

Options :

1. 3 : 1 ratio

2. 12 : 4 ratio

3. 9 : 3 : 3 : 1 ratio

4. 15 : 1 ratio

Question Number : 55 Question Id : 6589881495 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The strength of Linkage is determined by :

Options :

1. The length of two genes in question

2. The distance between two genes in question

3. The size of two genes in question

4. The GC content of the two genes in question

Question Number : 56 Question Id : 6589881496 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following geneticist is credited with "Copy choice model" of crossing over :

Options :

1. C. B. Bridges

2. Barbara Mc Clintock

3. J. Lederberg

4. A. Kornberg

Question Number : 57 Question Id : 6589881497 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Gynandromorph of *Drosophila melanogaster* shows following pattern :

Options :

1. Only male parts of the body

2. Only female parts of the body

3. Both male and female parts of the body

4. No body parts develop

Question Number : 58 Question Id : 6589881498 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Caenorhabditis elegans is :

Options :

1. Model bacteria for genetic studies

2. Nematode model for genetic studies

3. Plant model to study sex determination

4. Green algae for biofuel production

Question Number : 59 Question Id : 6589881499 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following geneticist coined the term "Gene" :

Options :

1. J. Lederberg

2. W. Johanson

3. W. Bateson

4. H. Smith

Question Number : 60 Question Id : 6589881500 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following Virus has got RNA genome :

Options :

1. Lambda Phage

2. TMV

3. M13 Phage

4. T4 Phage

Question Number : 61 Question Id : 6589881501 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Beadle and Tatum along with Lederberg received Nobel prize in 1958 for their following contribution :

Options :

1. Chromosomal basis of Sex determination

2. One gene one enzyme hypothesis

3. Organelle genomes

4. *Drosophila* genetics

Question Number : 62 Question Id : 6589881502 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The smallest unit of DNA capable of undergoing recombination is :

Options :

1. Muton

2. Cystron

3. Recon

4. Intron

Question Number : 63 Question Id : 6589881503 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Deamination of Cytosine results in the formation of following :

Options :

1. Guanine

2. Uracil

3. Adenine

4. Thymine

Question Number : 64 Question Id : 6589881504 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Acridine dyes cause :

Options :

1. Codon alterations

2. Frame shift mutations

3. Silent mutations

4. Thymine dimer

Question Number : 65 Question Id : 6589881505 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is not a chemical mutagen :

Options :

1. EMS

2. MMS

3. NTG

4. Phenol red

Question Number : 66 Question Id : 6589881506 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is not a stop codon :

Options :

1. UAA

2. UGG

3. UGA

4. UAG

Question Number : 67 Question Id : 6589881507 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Isoelectric point (pI) of a protein is defined as :

Options :

1. Net charge on the protein

2. pH at which the protein carries no net charge

3. Net mass of the protein

4. Electrical conductivity of the protein

Question Number : 68 Question Id : 6589881508 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The substrate for Catalase enzyme is :

Options :

1. CO_2

2. H_2O_2

3. HCO_3^-

4. O_2^-

Question Number : 69 Question Id : 6589881509 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Sucrose is hydrolysed by Invertase into the following two sugars :

Options :

1. Glucose and Maltose

2. Glucose and Fructose

3. Fructose and Lactose

4. Mannose and Galactose

Question Number : 70 Question Id : 6589881510 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following are Polysaccharide pairs ?

Options :

1. Glucose and Glycolipid

2. Starch and Glycogen

3. Lactose and Maltose

4. Fructose and Arabinose

Question Number : 71 Question Id : 6589881511 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Deoxyribose sugar of DNA belongs to :

Options :

1. Hexose sugar

2. Heptose sugar

3. Pentose sugar

4. Triose sugar

Question Number : 72 Question Id : 6589881512 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The RNA molecule which possesses catalytic activity is referred as :

Options :

1. Abzyme

2. Coenzyme

3. Ribozyme

4. Restriction enzyme

Question Number : 73 Question Id : 6589881513 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

NAM and NAG in the peptidoglycan is interconnected with the following linkage :

Options :

1. Alpha 1-2 Linkage

2. Alpha 1-4 Linkage

3. Beta 1-4 Linkage

4. Gamma 1-4 Linkage

Question Number : 74 Question Id : 6589881514 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Major purine components of nucleic acids are :

Options :

1. Cytosine and Uracil

2. Adenine and Guanine

3. Thymine and Uracil

4. Guanine and Uracil

Question Number : 75 Question Id : 6589881515 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The most common conformation of DNA present in the cells is :

Options :

1. A-form

2. B-form

3. Z-form

4. C-form

Question Number : 76 Question Id : 6589881516 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Eutrophication is defined as :

Options :

1. Excessive contamination of water bodies with nitrates and phosphates

2. Excessive contamination of water bodies with polyaromatic hydrocarbons

3. High level contamination of water bodies with toxic heavy metals

4. Contamination of water bodies with domestic wastes

Question Number : 77 Question Id : 6589881517 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Wich one of the following is responsible for depletion of Ozone layer :

Options :

1. CO_2

2. CFCs

3. CH_4

4. SO_2

Question Number : 78 Question Id : 6589881518 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Sigma factor is :

Options :

1. Component of DNA Polymerase I

2. Component of RNA Polymerase

3. Component of Reverse transcriptase

4. Component of Helicase

Question Number : 79 Question Id : 6589881519 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Anticeptic surgery was introduced first time by :

Options :

1. Robert Koch

2. Pasture

3. Joseph Lister

4. Robert Hook

Question Number : 80 Question Id : 6589881520 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A bacterial plasma membrane often appears to contain one or more large irregular folds is :

Options :

1. Ribosome

2. Mesosomes

3. Peroxisomes

4. Lysosomes

Question Number : 81 Question Id : 6589881521 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In electron transport chain system electrons are provided by :

Options :

1. Oxidation of NADH and $FADH_2$

2. Oxidation of TAP and ATP

3. Reduction of FDH and ATP

4. Oxidation of dnTp

Question Number : 82 Question Id : 6589881522 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The mechanism of ATP synthesis using electron transport chain is known as :

Options :

1. Chemosynthesis

2. Chemiosmosis

3. Chemical reduction

4. Chemolithotropy

Question Number : 83 Question Id : 6589881523 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Post transcriptional modification caping and tailing take place in :

Options :

1. γ-RNA

2. mRNA

3. t-RNA

4. r and t-RNA

Question Number : 84 Question Id : 6589881524 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Splicing takes place in :

Options :

1. Cytoplasm

2. Nucleolus

3. Nucleus

4. Mitochondria

Question Number : 85 Question Id : 6589881525 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Primer sequence in Okazaki fragments are removed by :

Options :

1. DNA polymerase I

2. Polymerase II

3. DNA polymerase III

4. Helicase

Question Number : 86 Question Id : 6589881526 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Peptidyl transferase enzyme is :

Options :

1. 16S r RNA

2. 23S r RNA

3. 5S r RNA

4. 30S r RNA

Question Number : 87 Question Id : 6589881527 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Three peptide bonds form between the :

Options :

1. 2-amino acids

2. 3-amino acids

3. 4-amino acids

4. 5-amino acids

Question Number : 88 Question Id : 6589881528 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which amino acid disfavour the α-helix ?

Options :

1. Proline

2. Aspargine

3. Glutamine

4. Alanine

Question Number : 89 Question Id : 6589881529 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Archaebcterial cell membrane contains :

Options :

1. Ester linked

2. Ether linkage

3. O-glycosidic linkage

4. Diester linkage

Question Number : 90 Question Id : 6589881530 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Thymine dimer is formed by :

Options :

1. Infrared radiation

2. UV radiation

3. Cosmic rays

4. Radiowaves

Question Number : 91 Question Id : 6589881531 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Polio virus enter in Human cell by :

Options :

1. Receptor mediated endocytosis

2. Endocytosis

3. Pore formation

4. Disruption of cell membrane

Question Number : 92 Question Id : 6589881532 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The genetic material of Hepatitis B virus is :

Options :

1. Single Stranded RNA

2. Double stranded RNA

3. Double stranded DNA

4. Single stranded DNA

Question Number : 93 Question Id : 6589881533 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Specialized transduction takes place by :

Options :

1. T_2 – Phage

2. T_4 Phage

3. Lambda - phage

4. Ti Phage

Question Number : 94 Question Id : 6589881534 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hopanoid structure is alike :

Options :

1. Sterol

2. Protein

3. Nucleic acid

4. Carbohydrate

Question Number : 95 Question Id : 6589881535 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Streak plate is used for the determination of :

Options :

1. Total bacterial population

2. Total fungal population

3. Pure culture

4. Biomass of bacteria

Question Number : 96 Question Id : 6589881536 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following types of media should not be used to culture acrobes ?

Options :

1. Selective medium

2. Enrichment medium

3. Reducing medium

4. Differential medium

Question Number : 97 Question Id : 6589881537 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Prions are :

Options :

1. Infectious carbohydrate

2. Infectious lipid

3. Infectious protein

4. Infectious RNA

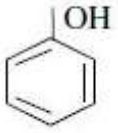
Question Number : 98 Question Id : 6589881538 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

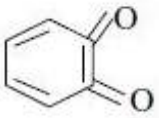
Correct Marks : 3 Wrong Marks : 1

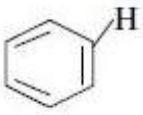
Question Label : Multiple Choice Question

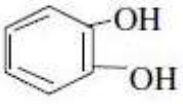
Structure of phenol :

Options :

1. 

2. 

3. 

4. 

Question Number : 99 Question Id : 6589881539 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The Eukaryotic organelles like mitochondria and chloroplast are divided by :

Options :

1. Mitosis

2. Binary fission

3. Meosis

4. Mitosis and Meosis both

Question Number : 100 Question Id : 6589881540 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Methylotrophs use energy from :

Options :

1. Starch

2. Lactose

3. NH_3

4. CH_4

Question Number : 101 Question Id : 6589881541 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Coenocytic hypha of fungus contain :

Options :

1. Septa

2. Pore alongwith septum

3. Only pore

4. No septum and pore

Question Number : 102 Question Id : 6589881542 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Enzyme co-factor is a :

Options :

1. Organic Molecule

2. Aromatic Molecule

3. A lipid Molecule

4. Inorganic Molecule

Question Number : 103 Question Id : 6589881543 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Pyridoxin is a :

Options :

1. Vitamin B_6

2. Vitamin B_{12}

3. Vitamin B_2

4. Vitamin B_1

Question Number : 104 Question Id : 6589881544 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Haemoglobin has :

Options :

1. 1α and 1β chain

2. 2 α and 2 β chain

3. 2 α and 1β chain

4. 3 α and 2 β chain

Question Number : 105 Question Id : 6589881545 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The nonsense codons to stop protein synthesis are :

Options :

1. UAA, UCA, UGA

2. AUG, GUG and CAG

3. UAA, UAG, UGA

4. AUG, GAU, CAT

Question Number : 106 Question Id : 6589881546 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

One nano meter (1 nm) is equal to :

Options :

1. 10^{-9} m

2. 10^{-3} m

3. 10^{-7} m

4. 10^{-6} m

Question Number : 107 Question Id : 6589881547 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

DNA was established as the hereditary material in 1944 by :

Options :

1. Avery Mac Leod and Mc Carty

2. Tatum

3. Griffith

4. Sehwan

Question Number : 108 Question Id : 6589881548 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Hydrocarbon Skeleton of saturated fatty acids do not contain :

Options :

1. Double bond

2. Single bond

3. Triple bond

4. Partial double bond

Question Number : 109 Question Id : 6589881549 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following organelles is not made up of microtubules ?

Options :

1. Sperm head

2. Cilia

3. Basal body

4. Centrosome

Question Number : 110 Question Id : 6589881550 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mitochondrial DNA is a good molecular clock for evaluating the rate of evolutionary changes because :

Options :

1. It has a circular genome

2. It has a poor DNA repair system that accumulates mutations

3. It is the powerhouse of cell

4. It occurs in multiple copies

Question Number : 111 Question Id : 6589881551 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Cell membrane is semi-permeable because :

Options :

1. It is composed of a single layer of lipids

2. Two layers of lipids

3. lipids as well as proteins

4. Lipids and carbohydrates

Question Number : 112 Question Id : 6589881552 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The co-transport of glucose with Na^+ ions across cell membrane occurs through :

Options :

1. Ion-gated channel proteins

2. Receptors

3. Carrier proteins

4. Spectrin

Question Number : 113 Question Id : 6589881553 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Operon concept of gene regulation was proposed by :

Options :

1. Watson & Crick

2. Meselsson & Stahl

3. Jacob & Monod

4. Britten & Davidson

Question Number : 114 Question Id : 6589881554 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following nucleases cleaves DNA in sequence-specific manner ?

Options :

1. *Staphylococcal* nuclease

2. Dnase1

3. Exonuclease

4. Restriction endonuclease

Question Number : 115 Question Id : 6589881555 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following contains highest percentage of protein on dry weight basis ?

Options :

1. Chlorella

2. Spirulina

3. Fusarium Granineorum

4. Methylophilus

Question Number : 116 Question Id : 6589881556 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is true according to Chargaff's rule ?

Options :

1. $A + G = T + C$

2. $A = C$

3. $G = T$

4. T = U

Question Number : 117 Question Id : 6589881557 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Reverse transcriptase is a :

Options :

1. DNA dependent RNA polymerase

2. DNA dependent DNA polymerase

3. RNA dependent RNA polymerase

4. RNA dependent DNA polymerase

Question Number : 118 Question Id : 6589881558 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Crossing over between homologous chromosomes during meiosis occurs at :

Options :

1. Zygotene

2. Pachytene

3. Diplotene

4. Metaphase I

Question Number : 119 Question Id : 6589881559 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Oxidization of NADH in the electron transport system leads to the production of :

Options :

1. 4 ATP

2. 3 ATP

3. 2 ATP

4. 1 ATP

Question Number : 120 Question Id : 6589881560 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Cytosine and Thymine differ from each other in :

Options :

1. $-NH_2$ at 4^{th} position

2. $-COOH$ at 3^{rd} position

3. $-CH_3$ at 5^{th} position

4. $-CH_3$ at 5^{th} and $-NH_2$ at 4^{th} position