Telangana State Council Higher Education

| 2.0ptions shown in red color and with icon are incorrect. | |
|---|--|
| Question Paper Name : Subject Name : | Bio Technology 12th Aug 2021 Shift I Bio Technology |
| Creation Date: | 2021-08-12 13:31 21 |
| Duration: | 120 |
| Total Marks: | 120 |
| Display Marks: | Yes |
| Calculator: | None |
| Magnifying Glass Required?: | |
| Ruler Required?: No Eraser Required?: No | |
| Scratch Pad Required?: | |
| Rough Sketch/Notepad Required?: | |
| Protractor Required?: | No |
| Show Watermark on Console? : Yes Highlighter : | |
| Auto Save on Console?: | Yes |
| | Bio Technology |
| Group Number: | 1 |
| Group Id: | 63643131 |
| Group Maximum Duration: | |
| Group Minimum Duration: | 120 |
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| Break time : | |
| Group Marks: | 120 |
| | |

Notations:

I.Options shown m green color and with icon are correct.

Mathematics

Section Id: 63643158

Section Number:

Section type:

Mandatory or Optional:

Online

Mandatory

Number of Questions:

Number of Questions to be attempted:

Section Marks:

10

Enable Mark as Answered Mark for Review and Clear Response:

Yes

Sub-Section Number:

Sub-Section Id: 63643158

Question Shuffling Allowed: Yes

Question Number: 1 Question Id: 6364313601 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation:

Vertical Correct Marks: 1 Wrong Marks: O

If a matrix A is skew symmetlic, then

Options:

- 1. .2 A has diagonal elements = 0
- 2. A has some eigen values = 0

Rank=

Question Number: 2 Question Id: 6364313602 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation:

Vertical

Correct Marks: 1 Wrong Marks: 0

If
$$x$$
 is
$$= \begin{bmatrix} 0 & -1 \\ 0 & 2 & 0 \\ 0 & 1 \end{bmatrix}, \text{ then } x^2 - 3x + 3 = 0$$

Options:

Question Number: 3 Question Id: 6364313603 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

an eigen value of the matrix

Mandatory: No Option Orientation:

Vertical

Correct Marks: 1 Wrong Marks: 0

$$\tan^2(2x)$$

Options:

2

3

4

Question Number: 4 Question Id: 6364313604 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation:

Vertical Correct Marks: 1 Wrong Marks: 0

If an =
$$\frac{1}{4n^2 - 1}$$
, then $\lim an = \frac{1}{4n^2 - 1}$

Options:

0

1

1

3

1

2

Question Number : 5 Question Id : 6364313605 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

$$\frac{dy}{dx} = \frac{x^2 + 4xy}{4y^3 - 2x^2}$$
 The solution of dx $\frac{dy}{dx} = \frac{2x^2 + 4xy}{4y^3 - 2x^2}$ satisfying y(0) = 0 is

Options:

$$x^3 + 6xy - 3y^4 = 0 x^3$$

$$+ 6x^2y - 31/ = 0x^3 +$$

$$6x^2y - 3y^4 = 0$$

$$4. \times x^3 + 6xy^2 - 3y^4 = 0$$

Question Number : 6 Question Id : 6364313606 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation :

Vertical

Correct Marks: 1 Wrong Marks: 0 y

The panicular integral of+9—=cos3x is dx3 cLx

3x

18

x —

 $\cos 3x \approx 9$

cos3x

9

Question Number: 7 Question Id: 6364313607 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation:

Vertical

Correct Marks: 1 Wrong Marks: O

$$\ddot{o}3z$$
 (3³ z

The solution of

$$\underline{\qquad} = 0 \text{ is}$$
 $\ddot{\text{o}}\text{x}^3 \ddot{\text{o}}\text{z}^2 \ddot{\text{o}}\text{y}$

(Here f, g, h are arbitrary functions)

$$z = f(x + y) + g(y) + xh(y)$$

$$z = f(x + y) + g(y) + h(y) z$$

$$= f(x - y) + g(y) + xh(y)$$

z=f(x-y)+g(y)+h(y)

Question Number: 8 Question Id: 6364313608 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation:

Vertical

Correct Marks: 1 Wrong Marks: O

Two numbers x and y are chosen at random from 1, $\frac{2}{3}$, $\frac{3}{3}$, $\frac{2}{3}$. Then the probability that 5x - 7y = 0 is satisfied is

Options:

1

25

1

50

 $\frac{1}{100}$

1 200

Question Number: 9 Question Id: 6364313609 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation:

Vertical

Correct Marks: 1 Wrong Marks: O

If the elements of a square matrix A of order 2 are 0 and 1 only, then the probability of A to be non-singular is

Options:

1

1. z 16

1

Question Number : 10 Question Id : 6364313610 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If A and E are usual operators, then A - E =

Options:

1

3

7

-]

₄ ₩ −2

Bio Technology

Section Id: 63643159 2 Section Number: Section type: Online Mandatory Mandatory or Optional: Number of Questions: 110 Number of Questions to be attempted: 110 Section Marks: 110 Enable Mark as Answered Mark for Review and Clear Response: Yes Sub-Section Number: Sub-Section Id: 63643159 Question Shuffling Allowed: Yes

Question Number: 11 Question Id: 6364313611 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

The suffix in libosome mit indicates

Options:

Solubility coefficient

Surface area

Size

Sedimentation coefficient

Question Number: 12 Question Id: 6364313612 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Whichof the following is in the conect sequence of different phases occulTing in mitosis

Options:

Anaphase —+ Metaphase —+ Prophase —+ Telophase —+ Intelphase

2. Intelphase —+ Prophase —+ Metaphase —+ Anaphase —+ Telophase

Prophase —i Anaphase —+ Telophase —+ Metaphase —+ Intell)hase

Metaphase —+ Prophase —i Anaphase Intell)hase —+ Telophase

Question Number: 13 Question Id: 6364313613 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

The cell in Gl of intelphase has 12 chromosomes. How many chromatids will be found per cell during metaphase II of meiosis

Options:

12

6

3 24

18

Question Number: 14 Question Id: 6364313614 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Fonnation of RNA with DNA as a template is Imown as

Options:

Transcfiption

Transduction

Duplication

Replication

Question Number: 15 Question Id: 6364313615 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

The pH of human saliva lies in the range

Options:

6.2-7.6

6.0 - 7.0

7.2-8.1

7.5-8.5

Question Number: 16 Question Id: 6364313616 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0 Whichof the following is

the most commonly employed vector

Plastids

Ribosomes

Plasmids

Histones

Question Number: 17 Question Id: 6364313617 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0 liliat are the colour

lights best suitable for plant growth

Options:

Blue - Yellow

Red - white

Blue - Red

Yellow - Green

Question Number: 18 Question Id: 6364313618 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

Mutagenicity of a compound is checked by

Options:

Ames test

Hay's test

FISH

Guthrie test

Question Number: 19 Question Id: 6364313619 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

In enzyme kinetics, Vmax denotes:

Options:

The amount of an active enzyme

Substrate concentration
Half the substrate concentration

Quantity of enzyme substrate complex

Question Number: 20 Question Id: 6364313620 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Light-independent reactions in photosynthesis takes place at

Options:

Thylakoid lumen

Photosystem Il Photosystem

I

Stromal matrix

Question Number: 21 Question Id: 6364313621 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

How many ATP molecules are required to fix one molecule of nitrogen

Options:

1. 20

3. 12

4M 16

Question Number: 22 Question Id: 6364313622 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Fluoride ions inhibit which enzyme of the glycolytic pathway

Options:

Hexokinase

Phoshpofiuctokinase

Aldolase

Enolase

Question Number: 23 Question Id: 6364313623 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: O

A membrane potential is the difference in electlical charge between Options:

Potassium and sodium ions

The inside and outside of the cell

Phosphoric acid and glycolipid layers

Resting and action potentials

Question Number: 24 Question Id: 6364313624 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

Down's syndrome is characterised by Options:

Momosomy of 21

Trisomy of chromosome X

Trisomy of chromosome Y

Tlisomy of chromosome 21

Question Number: 25 Question Id: 6364313625 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

All are post transcfiptional modifications in mRNA, except

Options:

Modification of bases Splicing of introns

Trimming of 3 ' end to CCA sequence

■ Attachment of poly A tail

Question Number: 26 Question Id: 6364313626 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

WIIich of the following is not tme regarding the genetic code

Options:

Degenerate

Ambigious Non

overlappmg

Universal

Question Number: 27 Question Id: 6364313627 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

In autosomal dominant inheritance, if only one parent is affected

1. 50% of the children will be sufferers 250

0 of the children will be camers

250 0 of the children will be nonnal

■ All the children will be genotypically abnormal.

Question Number: 28 Question Id: 6364313628 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Restriction endonuclease

Options:

Cleaves DNA at splice sites

Protects bacterial genome

Hydrolyses DNA from 5' end

Inhibits human DNAP

Question Number: 29 Question Id: 6364313629 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0 liliich one of the following modes of

ilmefitance is seen in Cystic Fibrosis

Autosomal recessive

Autosomal dominant

- 3. Sex linked
- 4. Spontaneous mutation

Question Number: 30 Question Id: 6364313630 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Leghaemoglobin creates

Options:

Anaerobic conditions for optimum activity of nitrogenase

Aerobic conditions for optimum activity of nitrogenase

Suitable environment for nodule fonnation

Required oxygen concentration for optimum activity of nitrogenase

Question Number: 31 Question Id: 6364313631 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The role of bacteriophyll in an oxygenic photosynthesis is to

- Reduce femdoxin directly
- 2. *Reduce nadp directly
- 3. ...2 Use light energy to energize an electron
 - **Transfer** electrons to an intennediate in the sulfide oxidation pathway

Question Number: 32 Question Id: 6364313632 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Hemophilia A, a common X-Iinked bleeding disorder is caused due to lack of function of a gene for

Options:

Factor vm

Factor VII

Platelets

Fibrinogen

Question Number: 33 Question Id: 6364313633 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Vvllicll of the following organelle is sunounded by a single membrane

Chloroplast

Mitochondlia

Peroxisome

Nucleus

Question Number: 34 Question Id: 6364313634 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

IMIich one of the following statements about associative nitrogen fixing bacteria is NOTtrue?

Options:

Rhodobacter and Rhodospirillum are autotrophic photosyllthetic N-fixing bacteria

Clostridium, Desulfotomaculum and Desulfovibrio are heterotrophic anaerobic

N-fixing bacteria

A:ospirillum is an associative autotrophic microaerophilic nitrogen fixing bactefia

Beijerinckia is an heterotrophic aerobic associative nitrogen fixing bacteria

Question Number: 35 Question Id: 6364313635 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

LDL binds with cell surface receptor and gets intemalized via clathlin-mediated endocytosis. This process helps in maintaining the cholesterol-LDL level in the plasma. However, in a disease known as familial hypercholesterolemia (FH), very' high levels of plasma cholesterol is found. This could be due to mutation in which one of the following genes in FH patients

Options:

Clatlllin

LDL

LDL receptor

Adaptor

Question Number: 36 Question Id: 6364313636 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Growth yield coefficient is defined as the ratio of

Options:

Cell mass fonned to substrate utilized Substrate utilized to cell mass fonned

Product fonned to cell mass fonned

4. Carbon dioxide produced to substrate utilized

Question Number: 37 Question Id: 6364313637 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

A researcher made an interesting observation about a protein made by the rough ER and eventually used to build a cell's plasma membrane. The protein in the membrane was slightly different from the protein made in the EX The protein was probably changed in the

Options:

Golgi apparatus

Smooth ER

Mitochondrion

Nucleus

Question Number: 38 Question Id: 6364313638 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Influenza vims contains 11 proteins, of which the two major glycoproteins are H and N. NMIat do H and N stand for in influenza strains nomenclature

Options:

H: Hemagglutinin: N: Nucleoprotein

1--1: Hemagglutinin; N: Neuraminidase

H: Hyaluronidase; N: Nucleoprotein

H: Hyaluronidase; N: Neuraminidase

×

Question Number: 39 Question Id: 6364313639 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O llnlich one of the following is NOT enriched in eukaryotic promoters located in active chromatin

Options:

- Acetylated histones
- DNAse I hypersensitive sites

Methylated cytosine

Bound TFIID

Question Number: 40 Question Id: 6364313640 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Glycosylation of membrane proteins and lipids is camed out by enzymes present in the lumen of endoplasmic reticulum and Golgi. The glycosylated palt of membrane proteins and lipids in the plasma membrane is likely to be Options:

Oliented towards the cyosol

Exposed to the extracellular environment

The glycosylated pans of the proteins are towards the cytoplasm but

3. glycosylated lipids are exposed to the extracellular environment

The glycosylated pans of the lipids are towards the cytoplasm but glycosylated proteins are exposed to the extracellular environment

Question Number: 41 Question Id: 6364313641 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

A given cytokine has different biological effects on different target cells. This is

known as

Options:

Redundancy

2. Synergy Totipotency

Pleiotropy

Question Number: 42 Question Id: 6364313642 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

Fusicoccin promotes cotyledon growth by promoting

Options:

Cell division

Cell wall biosynthesis

Tonoplast acidification

Cell wall acidification

Question Number: 43 Question Id: 6364313643 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

IW11ich one of the following is a sulphur containing secondary metabolite in mustard plant derived from glucose and an amino acid Options:

Glucosinolates

Phytoalexins

Ecdysones

Gynogenic glycosides

Question Number: 44 Question Id: 6364313644 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O Whichone of the following statements

regarding naturally occumng Agrobacterium strams is tme

Options:

The T-DNA region of Agrobacterium does not contain functional genes.

■ All the virulence genes of Agrobacterium are constitutively expressed

Agrobacterium-mduced galls require exogenous application of phytohonnones 3. for their growth.

Agrobacterium-induced galls in nature do not require bacterial persistence for 4. their growtlL

Question Number: 45 Question Id: 6364313645 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

A typical flowefing plant has a combination of sporophytic (diploid) and gametophytic (haploid) tissues. of the following types of plant tissues do NOT contribute to the fomation of a mature fruit

Options:

Sporophytic tissue from the previous generation

Gametophytic tissue from the previous generation

Sporophytic tissue from the next generation

Gametophytic tissue from the next generation

Question Number : 46 Question Id : 6364313646 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The Rht mutations in wheat that were pivotal for 'Green Revolution' reduce plant height due to impainment in Options:

Gibberellic acid biosynthesis pathway

×

Gibberellic acid signaling pathway Auxin biosynthetic pathway

Auxin response pathway

Question Number: 47 Question Id: 6364313647 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Verification of cultured explants caused by Options:

Low light in-adiance, high temperature and intensive sterilization

High auxin, low temperature and high light irradiance

Higher agar, high nutrients and low ph

* High pH, low temperature and high micronutrient concentration

Question Number: 48 Question Id: 6364313648 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Arabidopsis is advantageous for plant genetic research because Options:

- It is commercially important as a food crop
- It is having longer life cycle

It is a small plant with a small genome size which can be raised inexpensively

It is a close relative of com and results with this species can be applied to problems in com

Question Number: 49 Question Id: 6364313649 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Clean gene technology in developing transgenic plants means

Options:

Transgenic plants without marker genes

Transgenic plants with provision of removing marker gene after transfornation

Plant obtained with conventional breeding approach

Transgenic plants obtained through plastid transformation

Question Number: 50 Question Id: 6364313650 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: O

i\llicll one of the following combinations of marker genes and promoters CANNOT be used for selection of transgenic plants under in vitro conditions

Options:

Positive selection marker genes under the Agrobacterium-derived NOS promoter

Conditional negative selection marker genes under an inducible promoter

8

Positive selection marker genes under camv 35S promoter

Non-conditional negative selection marker genes under CaMV 35S promoter

Question Number: 51 Question Id: 6364313651 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Two independent transgenic plants, one with single copy of gene A and another with single copy of gene B were expressed under the same seed-specific promoter. In transgenic plants, seed formation on self-pollination was similar to that of untransfonned plants. IMIen homozygous plants with gene A (male parent) were crossed with homozygous plants with gene B (female parent), viable seed fonnation did not occur although, pollen production was normal. could be the possible reason for this obsewation

Options:

Product of gene A is lethal to the male gametophyte

88

✓ Interaction between products of genes A and B is lethal to the zygote

Interaction between products of genes A and B is lethal to the male gametophyte

Product of gene B is lethal to the zygote

Question Number: 52 Question Id: 6364313652 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

WIIich one of the following would produce androgenic haploids in anther culture

Options:

Anther wall

Tapetal layer

×

3. Connective tissue

Young microspores

Question Number: 53 Question Id: 6364313653 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

A method in which a strong enhancer is randomly inserted in a plant genome by transformation, resulting in mutant plants with dominant phenotypes, is known as Options:

Enhancer trapping **

Tilling

Activation tagging

Gene trapping

Question Number: 54 Question Id: 6364313654 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

WIIat do you mean by "Nutrient répression"

Options:

Inhibition of unwanted enzyme production

Production of unwanted enzymes

Inhibition of cell nutrients

Production of waste

Question Number: 55 Question Id: 6364313655 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Ivillat is the inactivated COVID vaccine produced by Bharat Biotech, using a sample of the coronavilus, isolated by India's National Institute of Virology

Covaxin Covishield ZyC0V-D BNT162 Question Number: 56 Question Id: 6364313656 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O Whichof the following purified enzyme is used in phannaceutical indusüy Options: Subtilisin 2 Novozyn-435 Bromelain Asparaginase Question Number: 57 Question Id: 6364313657 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O D-aminoacids are used in the production of_____

| Glucose symps Low |
|--|
| calorific sweetener |
| Insecticides |
| Sunscreen agents |
| Question Number: 58 Question Id: 6364313658 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O |
| Inunobilized is prepared by entrapping Escherichia coli cells in a k-carageenan gel cross-linked with glutaraldehyde and hexamethylenediamine. Options: |
| Raffinase |
| Lactase |
| Aspafiase Aminoacyclase |
| Question Number: 59 Question Id: 6364313659 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O |
| One major factor that must be addressed for the use of biphasic systems in many |
| enzyme-catalyzed reactions is |
| Options: |

Solvent polmty

Inactivation of the enzyme

Stability of the enzyme

Panition coefficient

Question Number: 60 Question Id: 6364313660 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

In the following chemicals which one is not used to isolate enzymes from cell free extract

Options:

1.400 buffered sucrose

2. Cetyl trimethyl ammonium bromide

Nucleases

Streptomycin sulphate

Question Number: 61 Question Id: 6364313661 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Enzymes can be isolated from cell free extract by which one of the following methods

Options:

Osmotic shock

Alkali treatment

Factors like pH, temperature and low ionic strength

Ultrasonication

Question Number: 62 Question Id: 6364313662 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Illiich of the following propelty may not be improved or altered using genetic engineering

Options:

Enzymes from dangerous or unapproved microorganisms may be cloned into safe high-production microorganisms

Enzymes from slow growing or limited plant or animal tissue may be cloned 2. into safe high-production microorganisms

If the biosensor is to be used for invasive monitofing in clinical situations, the probe must be tiny and biocompatible, having no toxic or antigenic effects

Enzymes may be redesigned to fit more appropriately into industrial processes

Question Number: 63 Question Id: 6364313663 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: O

\M1ich of the following is not a step in producing penicillin-G-amidase

Options:

Cleavage by Hind 111

Replacement of asparagme residue with serine present in the native enzyme

Cleaved fragments cloned into a cosmid vector

Penicillin-G-amidase gene transfened on to pBR322 plasmids

Question Number: 64 Question Id: 6364313664 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O Whichof the following techniques may not be

used to produce thermophilic enzymes

Options:

Internal salt link

Extra intemal hydrophobic residues

Suitable exterior substitutions

PlimalY stmcture of putative enzyme is proposed with an asparagine residue replacing the seme present in the native enzyme

Question Number: 65 Question Id: 6364313665 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

Illiich of the following micro-organisms do not produce lactase Options:

Trichodenna reesei

- Kluyveromyces fiagilis Aspergillus Niger
- Aspergillus Chyzae

Question Number: 66 Question Id: 6364313666 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

WIIich of the following is not an application for the use of lactase in industlies

Options:

Production of ice-creams

Production of sweetened flavored milk

Meat tenderization

Production of condensed milk

Question Number: 67 Question Id: 6364313667 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 liliat is the other name for biological filtration

Options:

Oxygen cycle

Nitrogen cycle

- Carbon cycle
- Methane cycle

Question Number: 68 Question Id: 6364313668 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O wmat is the law behind filtration

Options:

Darcy's law

2. a emy's law

Dalton's law

Newton's law

Question Number: 69 Question Id: 6364313669 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O Whatis

the media used in chemical filtration

Options:

Soap

2. *Detergents

Salt

Activated carbons

Question Number: 70 Question Id: 6364313670 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

During mixed acid fennentation by E. coli, which one of the following is NOT produced

Options:

Lactic acid

Succinic acid

Citric acid

Ethanol

Question Number: 71 Question Id: 6364313671 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The major drawback in using wild type S. cerelisiae for producing ethanol from biomass hydrolysate is

Options:

Low biomass yield of hexose sugars

Presence of solid residues

Low concentration of sugars

Non utilization of pentose sugar

Question Number: 72 Question Id: 6364313672 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

An anaerobic flask containing 50 ml of media with glucose as the sole carbon source was Inoculated with a consonium consisting of Methanosarcina and Bacillus. After two weeks of incubation, there will be

Options:

No growth

≈ Growth with methane production **≈** Growth

with acetate and methane production

Section Growth with C02 production

Question Number: 73 Question Id: 6364313673 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

Which Growth phase is usually longer in continuous culture

Options:

1. * Log

Exponential

Stationa1Y

Death

Question Number: 74 Question Id: 6364313674 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

The chemostat and turbidostat are the types of bioreactors that are used in which of the following culture

Options:

Batch culture

Continuous culture

Fed-Batch culture Solid State culture

Question Number: 75 Question Id: 6364313675 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0

WIIich one of the following statements is WRONG for conventional batch filtration of a mycelial fennentation broth

Options:

Blockage of the membrane pores by cell deblis

The specific cake resistance remams constant

Compressible cake deposition on the membrane

Medium resistance remain constant

Question Number: 76 Question Id: 6364313676 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

A 25-year old man undeltakes a prolonged fast for religious reasons. NIIIich one of the following metabolites will be elevated in his blood plasma after 24 hours

Options:

Lactic acid

2. Glycogen

Ketone bodies

Non-estefified fatty acids

Question Number: 77 Question Id: 6364313677 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : O

WIIat are the disadvantages of continuous culture

Options:

It can rarely be used for other productions

The growth rate is higher

If contamination occurs, huge volumes of the product may be lost

■ It is very useful for processes involving the production of l)limary metabolites

Question Number: 78 Question Id: 6364313678 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Under continuous culture which of the following condition is applicable

Options:

Ylmax < D

2. •Z gmax D gmax=D

!lmax = O

Question Number: 79 Question Id: 6364313679 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

%

NvM1at flower gene was used in rice to synthesize the production of beta carotene in 'golden rice'

Options:

Rose

Tulip

Daffodil

Sunflower

Question Number: 80 Question Id: 6364313680 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

WIIich of the following is used to grow bacterial cultures continuously

Options:

Haemostat

Chemostat

Turbidostat

Thennostat

Question Number: 81 Question Id: 6364313681 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

Name the phase which is a period of adaptation of the cells to the new environment Options:

1. e ag phase

Log phase

Exponential phase

StationalY phase

Question Number: 82 Question Id: 6364313682 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O Whichof the

following is a sequence alignment tool

Options:

PROSITE

2. * PRINT

3 vBLAST

PIR

Question Number: 83 Question Id: 6364313683 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O Whichof the following essential nutrient

is being depleted at an alarming rate

Options:

Potassium

Phosphonts

- 3. Carbon
 - Nitrogen

Question Number: 84 Question Id: 6364313684 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

Which of the following vitamin helps in blood clotting

Options:

Ascorbic acid

2. Phytonadione Tocopherol

Pantothenic Acid

Question Number: 85 Question Id: 6364313685 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0 liliich of the following is used as a selection medium for mammalian cell culture in hybridoma technology

Options:

DMSO

2. **✓** HAT

3. Skoog

Bovine semm

Question Number: 86 Question Id: 6364313686 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

The half-life period of is 14.5 days, how long does it take to decay 20 gms of P³² to 5 gms

| Options: |
|--|
| ≈ 40 Days |
| 29 Days |
| 30 Days |
| ≈ 27 Days |
| Question Number: 87 Question Id: 6364313687 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 |
| The presence of Nucleic acids are determined using fluorescent probe |
| Options : Ethidium bromide |
| Potassium pennanganate |
| Rhodamine |
| Fluorescein |

Question Number: 88 Question Id: 6364313688 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

WIIat is the pfinciple function of the class I and class II MHC molecules Options:

They are mediators of T-independent B-cell responses

They bind peptide antigens for presentation to antigen-specific receptors on B cells

They bind carbohydrate antigens by phagocytic cells

They display peptide antigens for review by antigen-specific receptors on T cells

Question Number: 89 Question Id: 6364313689 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Antigen-antibody complexes are phagocytosed more effectively in the presence of which complement component

Options:

C3a and C5a

2. v C3b

C56789 complex

NIBL

Question Number: 90 Question Id: 6364313690 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

IgE-mediated histamine release is classified as what type of hypersensitivity reaction

Options:

Type 3

Type 4

×

Question Number: 91 Question Id: 6364313691 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O Natural passive Immunity is due to

Options:

Administration of antisemm

Passage of Ig thorough placenta

Administration of purified Ig

Administration of vaccine

Question Number: 92 Question Id: 6364313692 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

After solid organ transplantation, which of the following is responsible for acute graft rejection

Options:

C3a

C₃b

C5a

C4d

Question Number: 93 Question Id: 6364313693 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

In an experiment, black mice (BB) are crossed with white mice (bb). The progeny of Fl generation thus obtained will be

Options:

All black

2. All white Black:

white .: 3:1

White:black:: 1:1

Question Number: 94 Question Id: 6364313694 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The substrate for restriction enzymes is

Options:

- 1. Single stranded RNA
 - Panially double stranded RNA
- 3. Cell wall proteins

Double stranded DNA

Question Number: 95 Question Id: 6364313695 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

The mechanism of sex detennination type operating in buttefflies and moth

Options:

ZW-ZZ

2. zo-zz

XX-XO

XX-XY

Question Number: 96 Question Id: 6364313696 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

A plant genetic engineer wishes to transfer and express a gene from sunflower into beans. Which of the following would be the vector of choice

Options:

Lambda phage

≈ pBR plasmid

Ti plasmid

Maize streak vims

Question Number: 97 Question Id: 6364313697 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

DNA fingelprinting is based on

Options:

Occunence of VNTR's

Knowledge of human kawot»e

Cloned DNA

Recombinant DNA

Question Number: 98 Question Id: 6364313698 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O Which one of the following

statements about genomic librafies are false

Options:

Genomic libralies must be representative if they are to contain all the genes in

an organism

Genomic librafies are made from cDNA

Genomic libraries must contain a Imnimum number of recombinants if they are to contain all the genes in an organism

The DNA must be fragmented to an appropriate size for the vector that is used

Question Number: 99 Question Id: 6364313699 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: O Whichof the following genetic diseases would

be amenable to genetic engineering

Options:

Down's syndrome

Muscular dystrophy

3. Cli du Chat

Cystic fibrosis

Question Number: 100 Question Id: 6364313700 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

All are major bioinfonnatics resources except

Options:

1. NCBI EBI

ExPasy

Pubmed

Question Number: 101 Question Id: 6364313701 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

The processivity factor of DNA polymerase Ill is

Options:

- **«** Gamma Complex
- 2. Beta Clamp **

DnaA protein

DnaG protein

Question Number: 102 Question Id: 6364313702 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Comment lime '>' denotes

Options:

■ Oligin of sequence in nucleotide flat line ■ Oligin of

gene sequence in EMBL nucleotide sequence

End of protein sequence in gene pept

Oligin of nucleotide sequence in FASTA fonnat

Question Number: 103 Question Id: 6364313703 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : O Unipolt

stands for Options :

Universal polypeptide DatabaseUniversal protein Database

* Unifonn protein Database

Unique protein Database

Question Number: 104 Question Id: 6364313704 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Hyblidoma is the

Options:

Fusion of plant and animal cell

Fusion of cancer cell and B cells

Fusion of plant cell and microorganism

Fusion of animal cell and microorganism

Question Number: 105 Question Id: 6364313705 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The green colour in RasMol indicates

Options:

- 1. Hydrogen
 - **Sulphur**
- 3. Hydrogen bond
 - Disulphide bond

Question Number: 106 Question Id: 6364313706 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Commercial software for both protein and ntlcleotide mutation is

Options:

* DALI

2 *VAX

PyMoL

Biopolymer

Question Number: 107 Question Id: 6364313707 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks : 1 Wrong Marks : O
Threading is a method of

Options:

1. y cwstallogmphy Protein

modelling

Circular dichroism

■ Ab initio protein modeling

Question Number: 108 Question Id: 6364313708 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

In homology modelling the most suitable BLAST is

Options:

PSI-BLAST

RP-BLAST GEO-

BLAST

PHI-BLAST

Question Number: 109 Question Id: 6364313709 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The first protein to be sequenced

Options:

Hemoglobin

Myosin

Tannin

Insulin

Question Number: 110 Question Id: 6364313710 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is

Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

Cry genes or Bt genes are obtained from

Options:

Cotton pest

Tobacco plant

Bacillus thumgiensis

E.C01i

Question Number: 111 Question Id: 6364313711 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

In gel electrophoresis, DNA molecules migrate from_____ends of the gel Options:

Negative to positive

Basic to acidic

Long to short

Positive to negative

Question Number: 112 Question Id: 6364313712 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question Mandatory: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: O

Illiat is a charactefistic of the adaptive immune response and not of the immate response

Options:

Physical baniers

Chemical bamers

Phagocytosis Clonal expansion of effector cells

Question Number: 113 Question Id: 6364313713 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O Which of the following DNA

modifications results in silencing of a gene

Options:

Acetylation

Ethylation

3. V ethylation

Ubiquitination

Question Number: 114 Question Id: 6364313714 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: O

In the S-phase, activation of pre-replicative complex is done by

Options:

Cdtl

CDC6

Cdc7-db4

4. ORCI

Question Number: 115 Question Id: 6364313715 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

In which type of ELISA is the antibody initially incubated in solution with a sample containing antigen Plior to coating

Options:

Indirect ELISA

2 Sandwich ELISA

3..4 Competitive ELISA

Non competitive ELISA

Question Number: 116 Question Id: 6364313716 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O Whichof the following disorders are caused

due to recessive autosomal mutations

Options:

Tumer's syndrome and sickle cell anaemia
Edward's syndrome and Down's syndrome

Cystic fibrosis and phenylketonuria

Alzheimer's disease and Huntington's chorea

Question Number: 117 Question Id: 6364313717 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

Unwinding of circular DNA produce

Options:

Positive Supercoiling

Negative Supercoiling

- **■** Both positive and negative supercoiling
- 4. * Relaxed open circular DNA

Question Number: 118 Question Id: 6364313718 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Curdling of milk in small intestine occurs due to the action of

Options:

Rennin

Emsine

3. Tmsin

Chymotrypsin

Question Number: 119 Question Id: 6364313719 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: O

If the substrate concentration is much below the Km of the enzyme, the velocity of the reaction is

Options:

Directly proponional to the substrate concentration

Not affected by enzyme concentration

- Nearly equal to Vmax
- Inversely proportional to substmte concentration

Question Number: 120 Question Id: 6364313720 Question Type: MCQ Option Shuffling: Yes Display Question Number: Yes Is Question

Mandatory: No Option Orientation: Vertical

Correct Marks : 1 Wrong Marks : O

pBR322 which is frequently used as a vector for cloning a gene in E.coli is

Options:

An original bactefial plasmid

A modified bacterial plasmid

A viral genome

A transposan

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