

GRADUATE APTITUDE TEST – BIOTECHNOLOGY (GAT-B)

स्नातक योग्यता परीक्षा- जैवप्रौद्योगिकी (जीएटी-बी)

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Participant Name	Bharti Sharma
Test Center Name	Impulse Online Exam Centre
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Note: * May change after Objection Management

Section: Section A

Q.1 Three pipes A, B and C can fill a tank from empty to full in 30 minutes, 20 minutes, and 10 minutes respectively. When the tank is empty, all the three pipes are opened. The time required to fill the tank (in minutes) will be

Ans

X 1. 8/11

X 2. 5/11

3. 60/11

X 4. 7/11

Question Type: MCQ

Question ID: 936082453

Status: Not Answered

Chosen Option: --

Marks: 0

Q.2 The hydrolysis of an ester in an acidic medium is an example of a

Ans

1. pseudo unimolecular reaction

2. second order reaction

X 3. bimolecular reaction

X 4. zero order reaction

Question Type : MCQ

Question ID: 936082410

Status : Answered

Chosen Option : 1

Q.3 Choose the correct statement

Ans

1. static friction is always greater than the sliding friction



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X 2.

coefficient of static friction is always less than coefficient of the sliding friction

3. limiting friction is always less than the sliding friction

4. static friction is equal to the sliding friction

Question Type : MCQ Question ID : 936082417 Status : Answered

Chosen Option : 3 Marks : -0.5

Q.4 The most abundant enzyme present on the Earth is

Ans

1. Rubisco

2. lysozyme

X 3. trypsin

X 4. hexokinase

Question Type : MCQ Question ID : 936082435

Status : Answered

Chosen Option : 1 Marks : 1

Q.5 Father's age is four times that of his son Ronit. After 8 years, father would be two and a half times of Ronit's age. After another 8 years, how many times of Ronit's age would father's age be?

Ans

1. 2 times

X 2. 5 times

X 3. 3 times

X 4. 4 times

Question Type : MCQ Question ID : 936082459

Status: Answered

Chosen Option: 4

Marks: -0.5

Q.6 Latent heat brings

Ans 🎜 1

1. no change in state of the material

X 2. about a change in the state of the material

3. about a decrease in temperature

4. about an increase in temperature

Question Type : MCQ Question ID : 936082425

Status: Not Answered

Chosen Option : --Marks : 0

An airplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in $\frac{5}{3}$ hours, it must travel at a speed (in kmph) of **1. 720** Ans https://www.biotechsapiens.com × 2. 360 X 3. 300 X 4. 600 Question Type: MCQ Question ID: 936082457 Status: Answered Chosen Option: 1 Marks: 1 Which of the following statements about enzymes is correct? Ans 1. they are chemical catalysts 2. they are not stereospecific. 3. they are biological catalysts 4. they are always proteinaceous Question Type: MCQ Question ID: 936082404 Status: Answered Chosen Option: 3 Marks: 1 Which of the following metals is used for galvanizing iron? X 1. cobalt Ans 2. zinc X 3. copper X 4. aluminium Question Type: MCQ Question ID: 936082403 Status: Not Answered Chosen Option: --Marks: 0 Q.10 The angle of contact in surface tension is 1. acute for liquids which do not wet the solid Ans 2 obtuse for liquids which wet the solid X 3. obtuse for liquids which do not wet the solid 4. independent of the nature of the liquid and the solid in contact Question Type: MCQ Question ID: 936082420 Status: Answered Chosen Option: 1 Marks : -0.5

Q.11 Lactose is made up of **BIOTECH SAPIENS** Ans X 1. two glucose units https://www.biotechsapiens.com 2. two maltose units X 3. glucose and maltose 4. glucose and galactose Question Type: MCQ Question ID: 936082406 Status: Answered Chosen Option: 4 Marks: 1 Q.12 Which of the following is composed of only one element? X 1. cement 2. brass 3. diamond X 4. rust Question Type: MCQ Question ID: 936082402 Status: Answered Chosen Option: 3 Marks: 1 Q.13 The causative agent of sleeping sickness in human beings is an intracellular parasite present in the plasma cells Ans 2. extracellular parasite present in the gut lumen 3. extracellular parasite present in the blood plasma 4. intracellular parasite present in the erythrocytes Question Type: MCQ Question ID: 936082431 Status: Not Answered Chosen Option: --Marks: 0 Q.14 The cell organelle, abundant in liver for detoxification of drugs and toxicants is Ans X 1. golgi complex X 2. lysosomes 3. polysomes 4. smooth endoplasmic reticulum Question Type: MCQ Question ID: 936082438

Status: Answered

Chosen Option : 4 Marks : 1

Q.15 Proinsulin matures into active insulin by removal of **BIOTECH SAPIENS** Ans X 1. B-peptide chain https://www.biotechsapiens.com 2. C-peptide sequence 3. B and C-peptide chains X 4. A-peptide chain Question Type: MCQ Question ID: 936082440 Status: Answered Chosen Option: 2 Marks: 1 Q.16 The enzyme used to seal the sticky ends of restriction fragments is 1. DNA ligase 2. exonuclease reverse transcriptase 4. endonuclease Question Type: MCQ Question ID: 936082443 Status: Answered Chosen Option: 1 Marks: 1 Q.17 Which of the following is a dimensionless quantity? Ans X 1. specific heat at constant volume X 2. magnetic flux 3. amplification factor in electronics X 4. Young's modulus Question Type: MCQ Question ID: 936082416 Status: Answered Chosen Option: 4 Marks : -0.5 Q.18 Which of the following is NOT a practical example of capillary action? when one end of a towel is dipped in a bucket filled with water then after some time the entire towel becomes wet 2. ploughing a field helps retain moisture in it X 3. writing nib is split in the middle 4 spreading of water on the surface of a table Question Type: MCQ Question ID: 936082421 Status: Answered Chosen Option: 4 Marks: 1

Q.19 Nylon-6 is made using **BIOTECH SAPIENS** X 1. cyclohexanone https://www.biotechsapiens.com 2. caprolactam X 3. β-lactam X 4. cyclohexene Question Type: MCQ Question ID: 936082408 Status: Answered Chosen Option: 1 Marks : -0.5 Q.20 The electric and magnetic field components of an electromagnetic wave are 1. perpendicular to direction of propagation Ans 2. independent of direction of propagation X 3. parallel to direction of propagation X 4. parallel to each other Question Type: MCQ Question ID: 936082426 Status: Answered Chosen Option: 1 Marks: 1 Q.21 In organic chemistry, Williamson synthesis is used for the synthesis of X 1. ketones 2. ethers X 3. aldehydes X 4. alcohols Question Type: MCQ Question ID: 936082412 Status: Answered Chosen Option: 2 Marks: 1 Q.22 The enzyme encoded by lac-z gene in the lac operon helps in 1. breakdown of lactose into its monomers Ans repression of the transcription process increasing cell permeability to lactose X 4. transfer of an acetyl group to β-galactosidase Question Type: MCQ Question ID: 936082445 Status: Answered Chosen Option: 1 Marks: 1

Which material has the highest conductivity? **BIOTECH SAPIENS** Ans 1 copper https://www.biotechsapiens.com X 2. iron X 3. glass X 4. graphite Question Type: MCQ Question ID: 936082415 Status: Answered Chosen Option: 2 Marks : -0.5 A and B together have Rs. 1210. If $\frac{4}{15}$ of A's amount is equal to $\frac{2}{5}$ of B's amount, how much money does B have? X 1. Rs. 460 X 2. Rs. 550 3. Rs. 484 X 4. Rs. 664 Question Type: MCQ Question ID: 936082452 Status: Answered Chosen Option: 3 Marks: 1 It is given that (232 + 1) is completely divisible by a whole number. Which of the following numbers is completely divisible by this number? X 1. (7 x 2²³) 2. (2⁹⁶+1) × 3. (2¹⁶ - 1) \times 4. $(2^{16}+1)$ Question Type: MCQ Question ID: 936082449 Status: Not Answered Chosen Option: --Marks: 0 Q.26 Rakesh purchased a horse for Rs. 3000 and sold it the same day for Rs. 3600, allowing the buyer a credit of 2 years. If the prevailing rate of interest is 10% per annum, then Rakesh has a net gain of Ans Question Type: MCQ

Question Type : MCQ
Question ID : 936082460
Status : Answered
Chosen Option : 3

Marks: -0.5

If electric resistance has to be decreased, resistors have to be connected in Ans parallel https://www.biotechsapiens.com 2. electric resistance cannot be decreased 3. mixed arrangement X 4. series Question Type: MCQ Question ID: 936082430 Status: Answered Chosen Option: 1 Marks: 1 Q.28 Boyle's law relates to Ans X 1. elasticity of solids X 2. plasticity of solids kinetic theory of gases X 4. viscosity of liquids Question Type: MCQ Question ID: 936082429 Status: Answered Chosen Option: 3 Marks: 1 Q.29 A bank offers 5% compound interest calculated on half-yearly basis. A customer deposits Rs. 1600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is X 1. Rs. 123 Ans X 2. Rs. 120 3. Rs. 121 X 4. Rs. 122 Question Type: MCQ Question ID: 936082458 Status: Not Answered Chosen Option: --Marks: 0 Q.30 In the first 10 overs of a cricket game, the run rate was 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs? Ans X 1. 7 X 2. 6.5 X 3. 6.75 4. 6.25 Question Type: MCQ Question ID: 936082448

Status: Not Answered

Chosen Option : --Marks : 0

Q.31 An elaioplast is involved in **BIOTECH SAPIENS** Ans 1. storage of fats or lipids 2. regulation of cellular osmolarity https://www.biotechsapiens.com 3. imparting colour to the plants 4 metabolism of nitrogenous products Question Type: MCQ Question ID: 936082439 Status: Answered Chosen Option: 1 Marks: 1 Q.32 Which of the following travels as a longitudinal wave? 1. electromagnetic waves 2. heat waves 3. sound waves X 4. light waves Question Type: MCQ Question ID: 936082423 Status: Answered Chosen Option: 1 Marks : -0.5 Q.33 Genome of HIV is X 1. dsRNA 2. ssDNA X 3. dsDNA 4. ssRNA Question Type: MCQ Question ID: 936082434 Status: Answered Chosen Option: 4 Marks: 1 Q.34 A particle collides with another stationary particle of the same mass. If the collision is ideally elastic, the angle of divergence is Ans X 1.60° X 2. 30° **√** 3.90° X 4. 45° Question Type: MCQ Question ID: 936082418 Status: Not Answered Chosen Option: --Marks: 0

Q.35 Choose the correctly matched pair of causative agents and the diseases they cause.

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1. bacteria – AIDS, Syphilis, Typhoid

🗸 2. virus – Mumps, Measles, Polio

X 3. helminths – Elephantiasis, Ringworm, Yellow Fever

4. protozoa – Chicken pox, Sleeping sickness, Cholera

Question Type : **MCQ** Question ID : **936082432**

Status : Answered

Chosen Option : 2 Marks : 1

Q.36 Tyndall effect is associated with

Ans

X 1. gases

X 2. amorphous solids

3. colloidal solutions

X 4 volatile solvents

Question Type : **MCQ** Question ID : **936082405**

Status : Answered

Chosen Option : 3 Marks : 1

Q.37 The 'S' in the ribosomal subunits represents

Ans

differential solubility of the ribosomal proteins

2. differential sedimentation rates during centrifugation

3. number of single stranded ribosomal RNA

X 4. the source organism

Question Type : MCQ Question ID : 936082444

Status: Answered

Chosen Option : 2 Marks : 1

Q.38 A train running at a speed of 60 km/hr crosses a pole in 9 seconds. What is the length (in meters) of the train?

Ans

1.150

X 2. 180

X 3. 120

X 4. 324

Question Type: MCQ

Question ID: 936082446

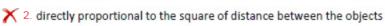
Status: Answered

Chosen Option: 1

Q.39 Gravitational forces are

Ans

1. inversely proportional to the cube of distance between the objects





4. inversely proportional to the square of distance between the objects



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Question Type : MCQ Question ID : 936082419

Status : Answered

Chosen Option : 4

Marks : 1

Q.40 A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to cover a distance of 68 km downstream.

Ans

1. 4 hours

X 2. 3 hours

X 3. 5 hours

X 4. 2 hours

Question Type : MCQ Question ID : 936082450

Status: Not Answered

Chosen Option : --Marks : 0

Q.41 Which area of chemistry is Nernst equation used in

Ans

1. metallurgy

2. electrochemistry

X 3. fermentation

X 4. organic synthesis

Question Type : MCQ Question ID : 936082413

Status: Answered

Chosen Option : 2 Marks : 1

Q.42 In solid-state physics, work function is

Ans

X 1

the maximum energy required for the emission of photoelectrons from a metal

2. of the order of hundreds of eV for most metals

X 3. of the order of thousands of eV for most metals

4.

the minimum energy required for the emission of photoelectrons from a metal

Question Type : MCQ Question ID : 936082428

Status : Answered

Chosen Option : 4

Marks : 1

Q.43 Excessive fasting by a human being will lead to the presence of **BIOTECH SAPIENS** ★ 1. excess albumin content https://www.biotechsapiens.com 2. ketone bodies 3. calcium oxalate crystals X 4. bilirubin pigment Question Type: MCQ Question ID: 936082436 Status: Answered Chosen Option: 2 Marks: 1 Q.44 Twenty tickets numbered from 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5? Ans 1.8/15 2. 9/20 X 3. 1/5 X 4. 2/5 Question Type: MCQ Question ID: 936082454 Status: Answered Chosen Option: 2 Marks: 1 Q.45 RT-PCR is used to study X 1. carbohydrate expression level 2. protein expression level 3. RNA expression level 4. secondary metabolite expression level Question Type: MCQ Question ID: 936082441 Status: Answered Chosen Option: 3 Marks: 1 Q.46 In a dihybrid cross, Mendel's Law of Independent Assortment can be best described by 1. YYRR x YyRr X 2. YyRrxyyrr X 3. YYRR x YYRR 4. YyRr x YyRr Question Type: MCQ Question ID: 936082433 Status: Answered Chosen Option: 4 Marks: 1

Q.47 A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?

BIOTECH SAPIENS https://www.biotechsapiens.com X 3. 3.6 Question Type: MCQ Question ID: 936082451 Status: Answered Chosen Option: 2 Marks: 1 The common structures in a bacterium, plant and an animal cell are 1. nucleus, plasma membrane, mitochondria 2. plasma membrane, ribosomes, cytoplasm X 3. nucleus, cell wall, mitochondria 4. nucleus, plasma membrane, ribosomes Question Type: MCQ Question ID: 936082437 Status: Answered Chosen Option: 2 Marks: 1 Q.49 Mercury is used in thermometers because Ans 1. it has high coefficient of expansion 2. it wets glass X 3. it has a high specific heat 4. it has a low conductivity Question Type: MCQ Question ID: 936082424 Status: Not Answered Chosen Option: --Marks: 0 The reaction, which occurs when two molecules of acetaldehyde react in the presence of aqueous NaOH, is called Ans 1. Perkin condensation 2. aldol condensation 3. Cannizzaro's condensation 4. Reformatsky reaction Question Type: MCQ Question ID: 936082414

Status: Answered

Chosen Option : 2 Marks : 1 Q.51 A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes he has?



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X 1. 75

X 2. 45

X 3. 60

4. 90

Question Type : MCQ

Question ID: 936082455

Status: Not Answered

Chosen Option : --Marks : 0

Q.52 The molarity of the solution prepared by dissolving 8 g NaOH in 250 mL of water will be

Ans

X 1.0.4 M

X 2. 4 M

X 3. 0.25 M

4. 0.8 N

Question Type : MCQ

Question ID: 936082409

Status : Answered

Chosen Option : 4 Marks : 1

Q.53 In which of the following cases, the periodic time of a simple pendulum would change?

Ans

1. if the surrounding temperature is changed

X 2. if the amplitude of oscillation is changed

3. if the length of the pendulum is changed

4. if the mass of the bob is changed

Question Type: MCQ

Question ID: 936082422

Status: Answered

Chosen Option: 2

Marks : -0.5

Q.54 What would be the volume of water that would fall on 1.5 hectares of ground when the rainfall is 5 cm?

Ans

1. 750 cu.m

X 2. 7500 cu.m

X 3. 75000 cu.m

X 4. 75 cu.m

Question Type : MCQ

Question ID: 936082456

Status: Not Answered

Chosen Option : --

Q.55 How much NaCl is required to make 10 ml of 2 M NaCl solution? **EDIOTECH SAPIENS** X 1. 3.85 gm X 2. 38.5 gm https://www.biotechsapiens.com X 3. 7.7 gm 4. 1.17 gm Question Type: MCQ Question ID: 936082407 Status: Not Answered Chosen Option: --Marks: 0 Q.56 Which of the following is an antibiotic? Ans X 1. aspirin 2. cisplatin 3. chloramphenicol X 4. valium Question Type: MCQ Question ID: 936082411 Status: Answered Chosen Option: 3 Marks: 1 Q.57 Commonly, a diode valve is used in Ans X 1. oscillator X 2. clipper X 3. amplifier 4. rectifier Question Type: MCQ Question ID: 936082427 Status: Not Answered Chosen Option: --Marks: 0 Q.58 What is the relationship between edge lengths in a triclinic unit cell? 1. a not equal to b not equal to c X 2. a=b=c X 3. a=b not equal to c X 4. a not equal to b=c Question Type: MCQ Question ID: 936082401 Status: Not Answered Chosen Option: --Marks: 0

Q.59 A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. **BIOTECH SAPIENS** The principal sum is Ans X 1. Rs. 650 https://www.biotechsapiens.com X 2. Rs. 700 3. Rs. 698 X 4. Rs. 690 Question Type: MCQ Question ID: 936082447 Status: Not Answered Chosen Option: --Marks: 0 Q.60 In ELISA technique, the formation of product is monitored as Ans 1. conductivity of the solution 2. fluctuation in temperature 3. change in colour intensity 4. amount of precipitate Question Type: MCQ Question ID: 936082442 Status: Answered Chosen Option: 3 Marks: 1 Section: Section B Protein transport into the ER in mammalian cells is powered by 1. ATP hydrolysis 2. ATP and CTP 3. GTP hydrolysis X 4. GDP hydrolysis Question Type: MCQ Question ID: 936082478 Status: Not Answered Chosen Option: --Marks: 0 Q.2 What is the number of hydrogen bonds in a double helical B-DNA structure of 100 base pairs with 20 adenines and 10 thymine in one of the two strands? Ans 1. 270 2. 300 Question Type: MCQ

Question Type: MCQ
Question ID: 936082479
Status: Answered
Chosen Option: 1

Chosen Option : **1** Marks : **3** Q.3 Percentage of sequence identity for the following aligned sequence is BIOTECH SAPIENS 1 V K S F L W T Q A L 10 1 V P S F R W T Q S L 10 https://www.biotechsapiens.com X 1.80 % Ans √ 2.70 % X 3. 10 % X 4.30 % Question Type: MCQ Question ID: 936082544 Status: Not Answered Chosen Option: --Marks: 0 Q.4 Which organelle is NOT present in an isolated cell protoplast? Ans X 1. nucleus 2. cell membrane X 3. cytoplasm 4. cell wall Question Type: MCQ Question ID: 936082531 Status: Answered Chosen Option: 2 Marks: -1 Q.5 Which of the following is the most abundant leukocyte? 1. neutrophil Ans X 2. basophil X 3. B-lymphocyte 🗶 4. monocyte Question Type: MCQ Question ID: 936082462 Status: Not Answered Chosen Option : --Marks: 0 Q.6 Carbohydrate needs of 7.6 billion world's human population are provided by the members of a single plant family. Which is this plant family? Ans X 1. Solanaceae 2. Poaceae X 3. Fabaceae 4. Amaranthaceae Question Type: MCQ

Question Type : MCQ
Question ID : 936082535
Status : Not Answered
Chosen Option : --

Q.7 Fatty acids cannot be converted into carbohydrates in the body as the following reaction is NOT possible



Ans

1. conversion of acetyl CoA to pyruvate

2. formation of acetyl CoA from fatty acids

X 3. conversion of glucose-6-phosphate into glucose

X 4. fructose 1, 6-bisphosphate to fructose-6- phosphate

Question Type : MCQ
Question ID : 936082505
Status : Answered

Chosen Option : 1 Marks : 3

Q.8 Which of the following statements does NOT hold good for microbial production of penicillin by *Penicillum notatum*?

Ans

V 1.

The process follows growth associated product formation kinetics

X 2. The process is carried out in fed-batch mode

X 3.

Penicillin is recovered from the fermented broth by solvent extraction process

X 4. Penicillin is a secondary metabolite

Question Type : MCQ Question ID : 936082556

Status: Not Answered

Chosen Option : --Marks : 0

Q.9 Select the set of fat-soluble vitamins

Ans

1. Vit A, Vit D and Vit K

X 2. Vit B₆, Vit E and Vit K

X 3. Vit C, Vit K and Vit D

X 4. Vit C, Vit B12 and Vit A

Question Type : MCQ

Question ID: 936082473

Status: Answered

Chosen Option: 1

Marks: 3

Q.10 mRNA in bacteria bind to ribosomes through the

Ans

X 1. Kozak sequence

X 2. binding is non-specific

3. Shine Dalgarno sequence

X 4. TATA box

Question Type : MCQ

Question ID: 936082487

Status: Answered

Chosen Option: 3

Q. Lactose free milk

2. Chymosin

R. Cheese

3. Thermolysin

S. Cocoa butter substitute

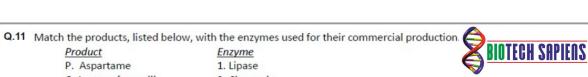
4. Beta-galactosidase

Ans X 1. P-2, Q-1, R-3, S-4

X 2. P-1, Q-3, R-2, S-4

√ 3. P-3, Q-4, R-2, S-1

X 4. P-2, Q-3, R-1, S-4



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Question Type: MCQ

Question ID: 936082555

Status: Not Answered

Chosen Option: --Marks: 0

Q.12 DNA polymerase I has the following activities

X 1. 5' to 3' exonuclease

X 2. 5' to 3' polymerase

3. all of the given options are correct

X 4. 3' to 5' exonuclease

Question Type: MCQ

Chosen Option: 3

Question ID: 936082489

Status: Answered

Marks: 3

Q.13 Plant gum is composed of different polysaccharides except

Ans

X 1. xylan

2. starch

X 3. galactan

X 4. galactomannan

Question Type: MCQ

Question ID: 936082540

Status: Not Answered

Chosen Option: --

Marks: 0

Q.14 Nitrogen fixation is the

Ans

√ 1. conversion of N₂ to NH₃

X 2. conversion of N₂ to Urea

3. conversion of NH₃ & NO₃ to N₂

★ 4. conversion of N₂ to N

Question Type: MCQ

Question ID: 936082536

Status: Answered

Chosen Option: 1

Q.15 Malaria disease is caused by **BIOTECH SAPIENS** X 1. virus https://www.biotechsapiens.com 2. fungus 3. protozoa X 4. bacteria Question Type: MCQ Question ID: 936082498 Status: Answered Chosen Option: 3 Marks: 3 Q.16 During one round of TCA cycle, how many molecules of carbon dioxide are released? X 1. 3 X 2. 1 X 4. 4 Question Type: MCQ Question ID: 936082509 Status: Not Answered Chosen Option: --Marks: 0 Q.17 Which of the following is a sequence alignment tool? Ans X 1. PIR X 2. PROSITE X 3. PRINT 4. BLAST Question Type: MCQ Question ID: 936082490 Status: Answered Chosen Option: 4 Marks: 3 Q.18 What is 'BR' in pBR322 plasmid? X 1. Baltimore and Rogers 2. Bolivar and Rodriguez 3. Bacterial Resistance X 4. Baltimore and Rodrigues Question Type: MCQ Question ID: 936082515 Status: Not Answered Chosen Option: --Marks: 0

Q.19 Which of the following molecules is NOT a secondary metabolite? X 1. solasodine https://www.biotechsapiens.com 2. anthocyanins 3. resveratrol 4. malonic acid Question Type: MCQ Question ID: 936082539 Status: Not Answered Chosen Option: --Marks: 0 Q.20 If the genotype of an individual is AABbCcddEEFF, how many types of gametes will be produced by this individual? Ans X 1.16 Question Type: MCQ Question ID: 936082466 Status: Answered Chosen Option: 4 Marks: 3 Q.21 Which among the following is a character-based method for construction of phylogenetic tree? Ans X 1. UPGMA X 2. Fitch-Margoliash 3. maximum parsimony X 4. neighbor-joining Question Type: MCQ Question ID: 936082547 Status: Not Answered Chosen Option: --Marks: 0 Q.22 Phosphofructokinase-1 (PFK-1) is allosterically regulated by several effectors. Which of the following would allosterically inhibit the enzyme? Ans √ 1. ATP X 2. AMP X 3. ADP 4. all of the given options are correct Question Type: MCQ Question ID: 936082506 Status: Answered Chosen Option: 1 Marks: 3

Q.23 Why is mitochondrial DNA considered to be the best marker for phylogenetic analysis?

Ans



1. mitochondrial DNA shows maternal inheritance

2. mitochondrial DNA evolves more slowly than the nuclear genes

3. mitochondrial genes are specific to mitochondrial DNA

X 4. mitochondrial DNA has lower mutation rate than nuclear DNA

Question Type : MCQ Question ID : 936082532

Status: Not Answered

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Chosen Option : --Marks : 0

Q.24 The genome size of M13 bacteriophage is

Ans

1. 6.4 kb

X 2. 221 bp

X 3. 2.7 kb

X 4. 3.5 kb

Question Type : MCQ

Question ID: 936082461

Status: Not Answered

Chosen Option : --Marks : 0

Q.25 Which of the following amino acids is most hydrophobic?

Ans

X 1. serine

X 2. cysteine

3. isoleucine

X 4. asparagine

Question Type : MCQ

Question ID: 936082543

Status : Answered

Chosen Option: 3 Marks: 3

Q.26 The primary RNA transcript of the chicken ovalbumin gene is 7700 nucleotides long, but the mature mRNA that is translated on the ribosome is 1872 nucleotides long. This observation suggests that this gene is a

Ans

1. split gene

X 2. jumping gene

X 3. selfish gene

X 4. overlapping gene

Question Type: MCQ

Question ID: 936082474

Status: Answered

Chosen Option: 1 Marks: 3 Q.27 Which of the following INCORRECTLY describes a molecule with a mass 1,000 times that of water?

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Ans

X 1. 18,000 Daltons

2. Mr 18,000 Daltons

X 3. 18 kDa

X 4. Mr 18,000

Question Type: MCQ

Question ID: 936082504

Status: Answered

Chosen Option: 4 Marks: -1

Q.28 TCA cycle operates under aerobic conditions. Reactions catalysed by which of the following enzyme requires participation of molecular oxygen?

X 1. Isocitrate dehydrogenase

X 2. Succinate Dehydrogenase

3. none of the TCA cycle enzyme requires participation of molecular oxygen

4. Ketoglutarate dehydrogenase

Question Type: MCQ

Question ID: 936082526

Status: Answered

Chosen Option: 3 Marks: 3

Q.29 Several RNA viruses form replication complexes by utilizing membranes from the

Ans

1. endoplasmic reticulum

X 2. nucleus

X 3. late endosomes

X 4. plasma membrane

Question Type: MCQ

Question ID: 936082496

Status: Not Answered

Chosen Option: --



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Ans

1. by plating transformants on a plate containing both the antibiotics.

X 2. recombinants cannot be differentiated from nonrecombinants



plating the transformants on a plate containing ampicillin and then replica plating on chloramphenical containing plates



plating the transformants on a plate containing chloramphenicol and then replica plating on ampicillin containing plates

Question Type : MCQ Question ID : 936082476

Status : Answered

Chosen Option : 3 Marks : -1

Q.31 The bond length of a peptide bond is

Ans

✓ 1. 1.32 Å

X 2. 1.49 Å

X 3. 2.01 Å

X 4. 1.27 Å

Question Type : MCQ Question ID : 936082541

Status : Answered

Chosen Option : 1 Marks : 3

Q.32 Addition of salt to a culture medium allows only the salt-tolerant bacteria to grow. This is an example of

Ans

1. differential media

X 2. enriched media

X 3. complex media

4. selective media

Question Type : MCQ

Question ID: 936082518

Status: Answered

Chosen Option: 4 Marks: 3 Q.33 A coenzyme or metal ion that is very tightly or even covalently bound to the enzyme protein is called Ans 1. prosthetic group https://www.biotechsapiens.com X 2. holoenzyme 3. apoenzyme 4. none of the given options is correct Question Type: MCQ Question ID: 936082514 Status: Answered Chosen Option: 1 Marks: 3 Q.34 Which of the following amino acids give yellow color on reaction with ninhydrin? X 1. aspartic acid 2. valine 3. glycine 4. proline Question Type: MCQ Question ID: 936082465 Status: Not Answered Chosen Option : --Marks: 0 Q.35 Sequence comparisons do NOT provide information about X 1. evolutionary history 2. functional relationship 3. gene locations 4. genetic relationships Question Type: MCQ Question ID: 936082491 Status: Answered Chosen Option: 3 Marks: 3 Q.36 Which of the following interactions are involved in stabilising the structure of protein? X 1. ionic bonds Ans X 2. hydrogen-bonds 3. all of the given options are correct 4. hydrophobic interactions Question Type: MCQ Question ID: 936082529 Status: Answered Chosen Option: 3 Marks: 3

Q.37 Louis Pasteur is NOT associated with

Ans

1. introduction of Complex media



3. discovery of M. tuberculosis

4. discovery of Rabies vaccine



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Question Type : **MCQ** Question ID : **936082522**

Status: Answered

Chosen Option: 3 Marks: 3

Q.38 Which of the following statements is true for the reversible competitive inhibition of an enzyme catalysed reaction?

Ans

1. the value of maximum reaction velocity decreases

X 2. the value of maximum reaction velocity remains unchanged

X 3. the value of Michaelis – Menten constant decreases

4. the value of Michaelis – Menten constant increases

Question Type : MCQ Question ID : 936082553

Status : Answered

Chosen Option : 2 Marks : -1

Q.39 Enzymes involved in the electron transport system are mainly located

Ans

1. outside the mitochondria

X 2. in the mitochondrial matrix

X 3. in the intermembrane space

4. on the inner mitochondrial membrane

Question Type : MCQ

Question ID: 936082475

Status : Answered

Chosen Option : 4 Marks : 3

Q.40 T-DNA carries which of the two phytohormone biosynthetic genes?

Anc

1. auxin and cytokinin

2. auxin and gibberellin

X 3. gibberellin and ethylene

4. cytokinin and gibberellin

Question Type: MCQ

Question ID: 936082533

Status: Answered

Chosen Option : 1

Q.41 The average length of the C-C single bond is **BIOTECH SAPIENS** X 1. 0.154 μm https://www.biotechsapiens.com X 2. 0.154 A° X 3. 1.54 μm 4. 0.154 nm Question Type: MCQ Question ID: 936082502 Status: Not Answered Chosen Option: --Marks: 0 Q.42 Horizontal gene transfer in bacteria can occur through X 1. conjugation and transduction but not transformation X 2. conjugation only 3. conjugation, transduction and transformation 4. conjugation and transformation but not transduction Question Type: MCQ Question ID: 936082493 Status: Answered Chosen Option: 3 Marks: 3 Q.43 The main role of carbohydrates in the cell membrane is 1. molecular recognition 2. modulating membrane fluidity X 3. locomotion X 4. adhesion Question Type: MCQ Question ID: 936082527 Status: Answered Chosen Option: 1 Marks: 3 Q.44 Shrinkage of protoplast from cell wall due to exosmosis caused by a hypertonic solution is Ans √ 1. plasmolysis 2. pinocytosis X 3. invagination X 4. phagocytosis Question Type: MCQ Question ID: 936082501 Status: Answered Chosen Option: 1

Q.45 Which of the following antibiotics acts by inhibiting bacterial cell wall synthesis? X 1 puromycin https://www.biotechsapiens.com 2. penicillin X 3. erythromycin X 4. tetracycline Question Type: MCQ Question ID: 936082467 Status: Answered Chosen Option: 2 Marks: 3 Q.46 Choose the epimers from the following pair of sugars X 1. glucose & sucrose 2. glucose & galactose 3. glucose & fructose 4. glucose & trehalose Question Type: MCQ Question ID : 936082512 Status: Answered Chosen Option: 2 Marks: 3

Q.47 In continuous fermenter reaction, the phenomenon of "wash-out" is obtained when

Ans

🗸 🗅 dilution rate is more than maximum specific growth rate

2 dilution rate is less than maximum specific growth rate

🗡 3. dilution rate is equal to half of maximum specific growth rate

X 4. wash-out has no relation with dilution rate

Question Type : MCQ

Question ID: 936082551

Status: Not Answered

Chosen Option : --Marks : 0

Q.48 Which of the following class of enzymes do NOT participate in the glycolytic pathway?

Ans

X 1. isomerases

2. ligases

X 3. Iyases

4. transferases

Question Type: MCQ

Question ID: 936082530

Status : Answered

Chosen Option : 2

Q.49 Most mitochondrial DNA (mtDNA) is inherited by the

Ans

X 1. sperm

2. egg cells

3. neither sperm nor egg cells

X 4. stem cells



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Question Type : MCQ Question ID : 936082477

Status: Answered

Chosen Option: 2 Marks: 3

Q.50 There is a mutation in the lac operon repressor in E. coli which prevent its binding to the operator. What is likely to happen when level of glucose is low in the cell?

Ans

X 1. expression of the genes only when lactose is absent

2. constitutive expression of the lac operon genes

X 3. expression of the genes only when lactose is present

X 4. lack of expression or reduced expression of the lac operon genes

Question Type : MCQ Question ID : 936082484

Status : Answered

Chosen Option : 2 Marks : 3

Q.51 CRISPR/Cas9 system can be used for

Ans

1. directly editing amino acids

X 2. editing lipid moieties

X 3. editing carbohydrates

4. editing nucleic acids

Question Type : MCQ

Question ID: 936082500

Status: Not Answered

Chosen Option : --Marks : 0

Q.52 The significance of a hit after a BLAST run is measured by

Ans

X 1. total score

X 2. P-score

X 3. max score

4. e-value

Question Type : MCQ

Question ID: 936082548

Status: Not Answered

Chosen Option: --

Q.53 Base sequence variations between individuals that result from point mutations are called

Ans

1. small nuclear polymorphisms

2. restriction fragment length polymorphisms

X 3. polymorphs

4. single nucleotide polymorphisms



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Question Type : MCQ Question ID : 936082481

Status : Answered

Chosen Option : 4 Marks : 3

Q.54 Baltimore classification of viruses is based on

Ans

1. nature of the viral nucleic acid

X 2. size and morphology

X 3. presence or absence of a lipid envelope

X 4. serology

Question Type: MCQ

Question ID: 936082497

Status: Not Answered

Chosen Option : --Marks : 0

Q.55 A cDNA encoding a human protein of interest was cloned in a bacterial expression vector and introduced into bacterial cells for expression. But no expression of the human protein of interest was obtained. This could be because

Ans

1. of codon bias



bacterial ribosomes were unable to bind to the mRNA corresponding to the human protein of interest

X 3, of presence of introns in the gene encoding the human protein



E. coli RNA polymerase cannot transcribe the sequence encoding the human protein of interest

Question Type: MCQ

Question ID: 936082503

Status : Answered

Chosen Option : 1 Marks : 3

Q.56 Denaturation of proteins leads to loss of biological activity mainly due to

Ans

Ioss of both primary and secondary structure

X 2. loss of primary structure

3. loss of secondary and tertiary structure

X 4. breaking of peptide bonds

Question Type: MCQ

Question ID: 936082507

Status: Answered

Chosen Option : 3 Marks : 3 Q.57 Rushton disc turbine is widely used in stirred tank fermenters to mix the culture broths. The BIOTECH SAPIENS

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Ans X 1. tangential flow

2. radial flow

X 3. axial flow

X 4. laminar flow

Question Type: MCQ

Question ID: 936082560

Status: Not Answered

Chosen Option: --Marks: 0

Q.58 PROCHECK is a

1 tool to calculate the molecular weight

2 tool to assess stereo-chemical quality of protein structures

X 3. protein Nucleotide database

4. protein structure prediction tool using homology modeling

Question Type: MCQ

Question ID: 936082550

Status: Not Answered

Chosen Option: --Marks: 0

Q.59 The primary enzyme responsible for duplication of the chromosome in E. coli is

1. DNA polymerase IV

X 2. DNA polymerase II

X 3. DNA polymerase I

4. DNA polymerase III

Question Type: MCQ

Question ID: 936082485

Status: Answered

Chosen Option: 4

Marks: 3

Q.60 Which of the following is an exception to the law of independent assortment?

Ans

1. linked genes

X 2. pleiotropy

X 3. non-disjunction

X 4. multiple alleles

Question Type: MCQ

Question ID: 936082495

Status: Answered

Chosen Option: 1



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Question Type : MCQ Question ID : 936082534

Status: Answered

Chosen Option : 2 Marks : -1

Q.62 Crystal structures of a protein is available with the following resolutions in the database. Which one would you choose for homology modelling and structure-based drug design?

Ans

X 1. 4.0 Å

4. Photolyase

✓ 2. 1.2 Å

X 3. 2.0 Å

X 4. 3.0 Å

Question Type : MCQ
Question ID : 936082546
Status : Not Answered

Chosen Option : --Marks : 0

Q.63 A, B and Z DNA are, respectively,

Ans

X 1. left, right and left handed

X 2. left, left and right handed

3. right, right and left handed

X 4. right, left and right handed

Question Type : MCQ Question ID : 936082486 Status : Answered

Chosen Option: 3 Marks: 3

Q.64 Which of the following is a method to study time-dependent behavior of biological molecules?

Ans

X 1. molecular docking

2. molecular modeling

3. molecular designing

4. molecular dynamics simulations

Question Type : MCQ Question ID : 936082549

Status: Not Answered

Chosen Option : --Marks : 0 Q.65 Low expression of a protein is observed in a given tissue. Which of the following technique will be used to determine whether the defect is at the transcriptional level or translational level?



Ans

1. Southern blot and Western blot

X 2. Dot blot and Southern blot

3. Northern blot and Western blot

X 4. Southern blot and Northern blot

Question Type : MCQ

Question ID: 936082470

Status: Answered

Chosen Option: 3

Marks : 3

Q.66 Alpha helices in a protein usually do not contain certain amino acids which are also called helix breakers. Identify the correct pair of amino acids that is generally NOT found in Alpha helices.

Ans

1. glutamic acid & aspartic acid

2. glycine & proline

X 3. valine & proline

X 4. lysine & arginine

Question Type: MCQ

Question ID: 936082528

Status: Answered

Chosen Option : 2

Marks: 3

Q.67 Which of the following is correct for double-stranded DNA?

Δns

1. purines = pyrimidines

X 2. A + C = G + T

3. all of the given options are correct

X 4. C+T=A+G

Question Type : MCQ

Question ID: 936082480

Status: Answered

Chosen Option: 3

Marks: 3

Q.68 In the context of process control, a stable system is defined as

Ans

X 1 one for which input is bounded

X 2. one for which the output remains constant

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one for which output response is bounded for all bounded inputs

4. one for which the input and the output remain constant

Question Type: MCQ

Question ID: 936082552

Status: Not Answered

Chosen Option: --

Q.69 PDB contains information about

Ans

1. phylogenetic structure

X 2. genetic structure

3. tertiary structure

X 4. cell structure



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Question Type : MCQ Question ID : 936082542

Status : Answered

Chosen Option : 3 Marks : 3

Q.70 An E. coli cell culture (1 ml) was diluted 10⁶-fold and 200 µl of this was used for plating. After 24 h incubation, the colony forming units (CFU) was found as 150. The CFU count of the original culture is

Ans

X 1.1.5 x 10⁶

 \times 2. 3.0 x 10⁶

X 3. 1.5 x 10⁸

 \checkmark 4. 7.5 x 10⁸

Question Type : MCQ Question ID : 936082554

Status: Not Answered

Chosen Option : --Marks : 0

Q.71 In most cases, the immune cell that recognizes antigen in complex with MHC-I is

Δns

X 1. macrophage

X 2. B-cell

X 3. helper T cell

4. cytotoxic T cell

Question Type : MCQ Question ID : 936082463 Status : Answered

Chosen Option : 4 Marks : 3

Q.72 Polypeptide chains of the silk protein Fibroin are predominantly in Beta-sheet conformation and has higher number of the following amino acids

Ans

X 1. glycine and valine

2. glycine and proline

3. glycine and alanine

4. alanine and cysteine

Question Type : MCQ
Question ID : 936082513
Status : Not Answered

Chosen Option : --Marks : 0 Q.73 A fermentation broth with viscosity of 10⁻² Pa.s and density of 1000 kg.m⁻³ is agitated in a 2.7 m³ baffled tank using a Rushton turbine with diameter of 0.5 m and stirrer speed of 1 s⁻¹. The impeller Reynold's number for the vessel is



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Ans

 \times 1. 2.7 x 10⁴

X 2. 50,000

 $\sqrt{3}$ 2.5 x 10^4

X 4. 7.2 x 104.

Question Type : MCQ
Question ID : 936082559
Status : Not Answered

Chosen Option : --

Marks: 0

Q.74 Pyruvate Dehydrogenase complex catalyses the formation of acetyl CoA from pyruvate. Which of the following describes the type of reaction that occurs?

Ans

X 1. acetylation

2. oxidative decarboxylation

X 3. oxidation-reduction

4. substrate-level phosphorylation

Question Type : MCQ
Question ID : 936082510
Status : Answered

Chosen Option : 2 Marks : 3

Q.75 In addition to tuberculosis, Robert Koch is also known for the discovery of the causative organism for

Ans

1. Leprosy

2. Cholera

X 3. Rabies

X 4. Influenza

Question Type : MCQ Question ID : 936082519

Status : Not Answered

Chosen Option : --Marks : 0

Q.76 In microbiological studies, plaque assay is carried out for

An

1. isolation and typing of viruses

X 2. accessing the mutations in the virus

X 3. determining the size of virus

4. measuring the number of infectious virus units

Question Type : MCQ
Question ID : 936082524
Status : Not Answered

Chosen Option : --Marks : 0 Q.77 Which is the hormone involved in closing stomata? X 1. auxin https://www.biotechsapiens.com 2. abscisic acid X 3. gibberellic acid X 4. cytokinin Question Type: MCQ Question ID: 936082538 Status: Not Answered Chosen Option: --Marks: 0 Q.78 An infectious RNA particle is known as X 1. prion 2. viroid X 3. virusoid X 4. virion Question Type: MCQ Question ID: 936082520 Status: Answered Chosen Option: 4 Marks: -1 Q.79 Which of the following techniques is the most appropriate for resolving the proteome of a bacterial cell? Ans SDS – PAGE electrophoresis 2. capillary electrophoresis 3. 2D – Gel electrophoresis 4. agarose electrophoresis Question Type: MCQ Question ID: 936082469 Status: Answered Chosen Option: 3 Marks: 3 Q.80 Which among the following is NOT an example of an RNA virus? 1. Ebola virus 2. Vesicular stomatitis virus X 3. Rabies virus 4. SV40 virus Question Type: MCQ Question ID: 936082525 Status: Not Answered Chosen Option: --Marks: 0

Q.81 Agarose gel electrophoresis is routinely used for analysis of DNA preparations. Which of the following can NOT be achieved by this electrophoresis?



Ans

1. separation of different molecular conformations of a DNA molecule

2. DNA sequencing

X 3. studying DNA-protein interaction

4. resolving of DNA fragments of different lengths

Question Type : MCQ Question ID : 936082521

Status : Answered

Chosen Option : 2 Marks : 3

Q.82 Which of the following endonucleases is involved in post-transcriptional gene silencing?

Ans

X 1. Transcription activator-like effector nuclease

X 2. Cas9

X 3. Zinc finger nuclease

4. Dicer

Question Type : MCQ Question ID : 936082494

Status: Answered

Chosen Option : 4 Marks : 3

Q.83 To promote the attachment and spreading of anchorage dependent animal cells, the surface of the culture vessel needs to be coated with

Ans

X 1. collagen

2. trypsin

3. pronase

X 4. poly-ethylene glycol

Question Type: MCQ

Question ID: 936082558

Status: Not Answered

Chosen Option : --Marks : 0

Q.84 In the presence of a competitive inhibitor, Km of an enzyme

Ans

X 1. remains unaffected

2. increases

X 3. decreases

4. initially decreases and then remains unchanged

Question Type : MCQ

Question ID: 936082511

Status: Answered

Chosen Option: 2

Q.85 Under aerobic conditions, what is the net yield of ATP molecules from beta-oxidation of one molecule of Palmitic acid?

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Ans

1. 138

X 2. 28

3. 129

X 4. 118

Question Type : MCQ

Question ID: 936082516

Status: Answered

Chosen Option : 4 Marks : -1

Q.86 Which one of the following compound has the highest phosphoryl group transfer potential?

Ans

X 1. fructose-1, 6-diphosphate

2. adenosine triphosphate

3. phosphoenolpyruvate

X 4. glucose-6-phosphate

Question Type: MCQ

Question ID: 936082508

Status: Answered

Chosen Option: 3

Marks: 3

Q.87 Which of the following diseases are transmitted by mosquito bite?

Ans

1 malaria / dengue / yellow fever / sleeping sickness

2. malaria / dengue / yellow fever / filariasis

X 3. sleeping sickness / malaria / dengue / flu

X 4. malaria / yellow fever / pneumonia / TB

Question Type: MCQ

Question ID : 936082482

Status: Not Answered

Chosen Option: --

Marks: 0

Q.88 In an enzyme catalyzed reaction, competitive inhibition can be overcome by increasing

An

1. the pH of the reaction

X 2. the concentration of enzyme

3. the concentration of substrate

4. the concentration of inhibitors

Question Type : MCQ

Question ID: 936082471

Status : Answered

Chosen Option: 3

Q.89 The process in which microbes are used to reduce the toxic industrial wastes or effluents is termed as



Ans

X 1. digestion

2. precipitation

3. bioremediation

4. bioconversion

Question Type: MCQ

Question ID: 936082483

Status: Answered

Chosen Option: 3 Marks: 3

Q.90 The process of weakening a pathogen so that it cannot cause the disease is technically called

Ans

X 1. vaccination

2. attenuation

3. opsonization

X 4. immunization

Question Type: MCQ

Question ID: 936082499

Status: Answered

Chosen Option: 2 Marks: 3

Q.91 Xeroderma pigmentosum is associated with defects in

1. direct reversal repair

2. nucleotide excision repair

3. base excision repair

4. DNA mismatch repair

Question Type: MCQ

Question ID: 936082492

Status: Not Answered

Chosen Option: --Marks: 0

Q.92 You successfully cloned and expressed a gene coding for an antigenic protein from SARS-CoV-2 virus. But when you injected this recombinant viral protein in mice to generate functional neutralizing antibodies, you failed to get any neutralizing antibodies. What could be the most probable reason?

1. mice do not respond to SARS-CoV-2 antigens

2. the purified protein was folded incorrectly

3. the purified viral protein was truncated

4. mice had a weak immune system

Question Type: MCQ

Question ID: 936082517

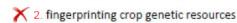
Status: Not Answered

Chosen Option: --

Q.93 Terminator technology in plants has been developed to

Ans

1. prevent biopiracy of medicinal plant products



3. ensure better bioprospecting of plant genetic resources

4. prevent unauthorized propagation of seeds



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Question Type : MCQ

Question ID: 936082472

Status: Not Answered

Chosen Option : --Marks : 0

Q.94 Baffles are introduced in a mechanically agitated bioreactor to

Ans

✓ 1. promote agitation and mixing of the fluid.

X 2. increase the solubility of oxygen in the medium

X 3. enhance vortexing and swirling of the liquid

X 4. break the microbial cells

Question Type: MCQ

Question ID: 936082557

Status: Not Answered

Chosen Option : --Marks : 0

Q.95 Hypophosphatemia is inherited as a X-linked dominant disorder. A normal male marries a heterozygous female affected with hypophosphatemia. What proportion of the offspring will manifest the disease?

Ans

X 1. all of the children

2. all the daughters and none of the sons

X 3. all the sons and none of the daughters

4. 50% sons and 50% daughters

Question Type: MCQ

Question ID: 936082468

Status : Answered

Chosen Option: 4

Marks: 3

Q.96 Structural alignment is measured by

Ans

√ 1. RMSD

X 2. Sequence identity

X 3. P-value

X 4. E-value

Question Type: MCQ

Question ID: 936082545

Status: Not Answered

Chosen Option : --Marks : 0

Q.97 In the lac operon, promoter and operator refer to 1. binding sites for repressor and RNA polymerase https://www.biotechsapiens.com binding site for repressor and corepressor 3. binding sites for RNA polymerase and repressor 4. two binding sites for RNA polymerase Question Type: MCQ Question ID: 936082488 Status: Answered Chosen Option: 3 Marks: 3 Q.98 The protein coat covering the nucleic acid in a virus is called Ans X 1. viroid √ 2. capsid X 3. peplomer X 4. envelope Question Type: MCQ Question ID: 936082523 Status: Answered Chosen Option: 2 Marks: 3 Q.99 Seed dormancy can be broken by weakening the seed coat. This process is called Ans 1. scarification 2. vernalization 3 stratification X 4. photoperiodism Question Type: MCQ Question ID: 936082537 Status: Not Answered Chosen Option: --Marks: 0 Q.100 Which of the following is an antigen-presenting cell (APC)? X 1. B-cell X 2. macrophage 3. all of the given options are correct X 4. dendritic cell Question Type: MCQ Question ID: 936082464 Status: Answered Chosen Option: 3 Marks: 3