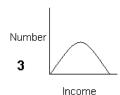
- 1. Which of the following pair is isotones?
- 1. ³H, ⁴He
- 2.¹⁵N, ¹⁴N1
- 3. ¹⁴⁰Ba, ¹⁴⁰Th
- 4. ¹H, ³H
- 2.What would be energy released on breaking H-H covalent bond (generally energy of covalent bond lies in between 100 200 Kcal/mol)
- 1. 4.36x10⁵ J/mol
- 2. 1x10⁻¹⁹ J/mol
- 3. 5 x10⁻¹⁹ J/mol
- 4. 8x10¹⁹ J/mol
- 3. The mode of sex determination in humans is
- 1. Haploidy-diplody
- 2. XX-XY
- 3. ZZ-ZW
- 4. Genic balance
- 4. The region of visible light which is most useful for photosynthesis is
- 1. Blue, red
- 2. Green, red
- 3. Violet, blue
- 4. Green, blue
- 5. Why the inner planet's surfaces are made up of rocky denser metals, whereas the outer planets are made of mainly light gases which is lesser denser then the outer planets
- 1. Inner planets are formed earlier
- 2. Sun rays pushes gases far apart
- 3. Centrifugal force attract denser planet near sun
- 4. Inner planets are near to sun, thus high temperature has blown most of lighter gases.
- 6. In the following algorithm loops how many times internal loops will be executed
 - i=0
 - j=0
 - while i= 1 to 100
 - i = 1,100,2
 - j = 1,100,2
- stop 1. 100
- 3. 151
- 2. 501 4. infin
- 7. Correct graphical representation for frequency of Indian population according to their annual income is (IFAS Answer 1)



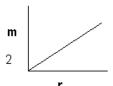


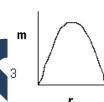


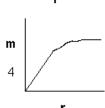


- 8. Among the following maximum reflectance s(albedo effect) will be observed at
- 1. Ice covered land
- 2. Ocean
- 3. Vegetation land
- 4. Deserts
- 9. A charged particle having mass 'm' and charged 'q'is moving through constant electric field 'E' the time to cover given path will depends on
- 1. m^{-1/2}
- 2. q^{-1/2}
- 3. E^{-1/2}
- 4. M-1/2 q-1/2E-1/2
- 10. A current (I) carrying solenoid of length 'l', radius 'a', the charge in magnetic field along axis of solenoid 'r' will be (IFAS Answer 1)

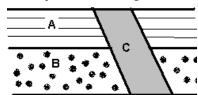






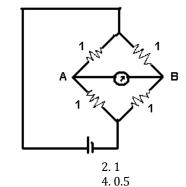


- 11. Correct algorithms for computing distance (X=u*t) for time 1 to 100 sec. will be (considering constant speed)
- 1. Do i =1to100
- 2. Do t=1 to 100
- x(t)=x*i i =i+1
- x=u*t t=t+1
- 3. Do i =1to100
- 4. Do t=1 to 100
- x(t)=u*t i =i+1
- x=u*t t=u+1
- 12. Among the following which salt occurs in human body
- 1 NaCl
- 2. KCN
- 3.HCN 2. RCN 4. H₂SO₄
- 13. Rock 'A' is layered on rock 'B' and rock 'C' is intrusion through A and B as shown in diagram the correct explanation for diagram is



- 1. 'A'is younger than B & C is younger than A
- 2. 'B'is younger than A & C is younger than B
- 3. 'C'is younger than A & C is younger than A
- 4. 'C'is younger than B & A is younger than C

14. Current passing through A-B in amperes as shown in diagram will be



15. If 7g of NaoH is dissolved in 350 ml water the molarity of resultant solution will be

1.0.5M 3.50 M

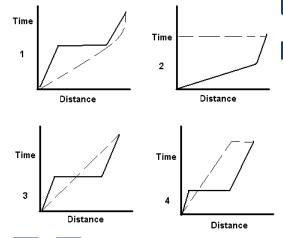
1.0

3.2

2.2.5M 4.25M

16. A race was held between Hare & tortoise. Hare run fast &took rest in middle and then completed race while tortoise moved at constant speed and completed race earlier then hare. The correct representation of this story is (-----represent tortoise and _

(IFAS Answer 4)



17. A bacterial population become half after one minute, the reduction in population depends on population at time't', what would the remaining population after 2 min of original population

1. 1/4 3.1/8 2. ½ 4.1/16

18. Fog, which is commonly observed during winter and causes problem to flight take off mainly seen at

- 1. Low altitude with pollution
- 2. High altitude with no pollution
- 3. High latitude with pollution
- 4. Low latitude without pollution

19. The algorithm computes

X = 0N = 0T=0 For i =1to N Sum (X) = x+ISTOP

1. Computes sum for array 'N'

- 2. Computes product of array 'N'
- 3. Computes factorial of array 'N'
- 4. Calculates sum of any integers

20. An apple falls from a tree, to hit apple from a bullet gun fired (distance between apple &gun is 100 m both are at height 5m

1. exactly at apple

- 2. slightly above the apple
- 3. slightly beneath the apple
- 4. 1 m below original position of apple

ariation in temperature will 21. Minimun (IFAS, Jodhpur) be observed at

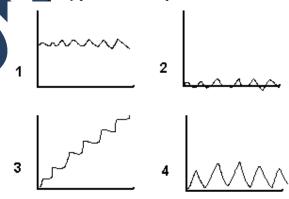
ngalore

2. Shimla

3. Coachir

4. Nagpur

aphical representation for function (IFAS Answer 1)



23. In equation sin2 x, value of x cannot be

1.0

2. -1

3.1

4.2

24. What would be effect of increasing humidity on rate of transpiration?

1. Rate of transpiration will decrease

- 2. Rate of tranpiration will increase
- 3. Initially low then it will be high
- 4. It will be unaffected

25. Maximum evaporation in ocean will occur at

1. Poles

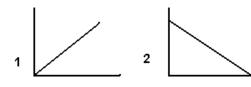
2. Equator

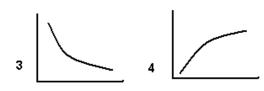
3. Wetlands

4. Evenly at all places

26. Graphical representation for rate kinetics for enzyme catalysed reaction will be (**Answer 3**)

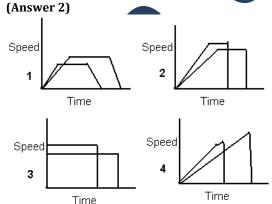
enzyme catalyseu reaction will be					(Allswei 5)	
I	Time(sec)	0	30	60	90	120
I	K (rate)	8.00	5.35	3.5	2.15	1.15





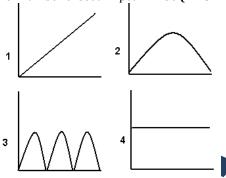
$$A = 2 \begin{bmatrix} 1 & -i \\ +i & 1 \end{bmatrix}$$

- 27. Determinants for matrix
- 1.5
- 2.4
- 3.9
- 4. 0
- 28. Possible arrangement for character of word 'MOTHER' such that vowels remain together
- 1.120
- 2. 140
- 3. 240
- 4. 280
- 29. A racer completes 100m in very small time another racer who runs 200m covers distance in time slightly greater than double of 100m race. Both achieve their maximum velocity at 50m the correct graphical for above situation will be

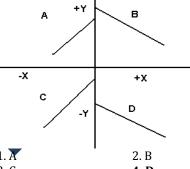


- 30. If a rope is tied around the radius 'R' of earth if the rope has to be tied 1m above the ground then additional length of rope required would be
- 1. R+1
- 2. R+2
- 3.2π
- 4. πR

31. You would removed seed from pea pods; some pods have more number of seed while other less, the correct graphical representation for number of seed in pea will be (IFAS Ans 2)



32. In graph line representing y=-ax-c (value of x and c are +ve)



- 3. C 4. D
- 33. The data of Rainfall for five consequetive days in Hyderabaqd is given below

 $2008 \rightarrow 0, 0, 0, 0, 100$ $2007 \rightarrow 0, 20, 20, 40, 0$

Which statement is correct?

- 1. Lesser variation in rainfall was observed in 2007 as compare 2008 at Hyderabad
- $2. \ In \ 2008 \ Hyderabad \ experienced \ more \ rainfall$
- 3. In 2007 Hyderabad experienced more rainfall
- 4. Variation in rainfall in 2007 and 2008 was equal
- 34. Short wave can be received at longer distance during radio transition as compare to medium wave because
- 1. Short wavelength can be reflected by ionosphere.
- 2. Medium waves are transmitted across space
- 3. Short wavelength are absorbed by ionosphere
- 4. Medium wavelength cannot be bend
- 35. If δ_{ij} =1 when i=j and o when i≠j. Then sum of δ_{ij} if it takes values of i and j from 1,2 and 3 respectively.
- 1. 1

2. 2

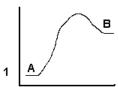
3.3

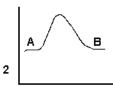
4.4

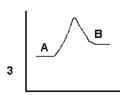
36. Currently among the following which is used as a fuel for nuclear reactor

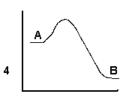
1.232Th 3. ²³³U 4. ²³⁸U

- 37. NaCl can be electrolyzed on electrode, but ethanol cannot because
- 1. Ethanol has covalent bond
- 2. Ethanol is polar
- 3. Ethnol has hydrogen bonding
- 4. Ethanol is electrically neutral.
- 38. Which of the following which is most porous:
- 1. Sand
- 2. Clav
- 3. Loamy soil
- 4. Granite
- 39. Which graph represents the endothermic reaction with minimum activation energy? ('A' Substrate → 'B' Product)(Answer 3)

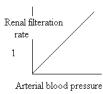


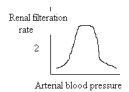


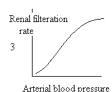


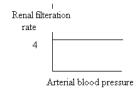


- 40. The process of photosynthesis which leads to formation of glucos ype of
- 1. Oxidation
- 3. Condensation
- rolated from organism. 41. A perfuse applying increasing What would be t pressur renal filtration on rate?(A









42. For 99 % confidence interval the value of Y

Y can be represented as

1. T ± 1.53 SD

2. \overline{Y} ± 2.58 SD

3. \overline{Y} ± 2.56 SE

4. \overline{Y} ± 1.53 SE

- 43. The statistical test which can be utilized to validate the statement "Peoples having high cholesterol suffer more from hypertension"
- 1. Students't' test
- 2. Regression analysis
- 3. Pearson correlation coefficient
- 4. ANOVA
- 44. Among the following whi been extensively used for phyto-remediation

1. Poaceae

3. Malvaceae

- 4. Anonaceae
- 45. Defe Amyotrophic lateral sclerosis

1. Rb

2. P53

- 4. TGF
- tor for transmission of disease Kalazar is

- 2. Anopheles
- 4. Phlebotomus
- rst successful vaccine against cancer has been prepared for

1. Oral cancer

- 2. Cervical cancer
- 3. Breast cancer
- 4. Colon cancer
- 48. Atrial natriuretic factor secreted from atria is

1. Hormone

- 2. Neurotransmitter

- 3. Enzyme
- 4. Growth factor
- 49. Substrate for angitensinogenase is

1. Angiotensinogen

- 2. Angiotensis I
- 3. Angiotensin II
- 4. Renin
- 50. Among the following in which mutant lines, λ lysogen phages will form clear bacterial plaques

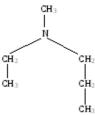
1. cI-

- 2. cII-
- 3. INT-
- 4. XIS-
- 51. Among the following which is not involved in plant defense signaling pathway

1. Gibberlic acid

- 2. Ethylene
- 3. Salisylic acid
- 4. Jasmonic acid
- 52. Factor responsible for formation of early embryonic axis during early developmental pathway of plants is
- 1. Auxin gradient
- 2. Morphogens
- 3. Orientation of embryo sac
- 4. Plane of Cell Division

- 53. During germination of barley seeds, enzymes for mobilization of reserve material to developing embryo are secreted from
- 1. Endosperm
- 2. Embryo
- 3. Aleurone layer
- 4. Embryonic leaves
- Which statement is correct for given compound?



- 1. It is always optically active
- 2. It is always optically inactive
- 3. It will be optically active if N is protonated
- 4. It will be always optically neutral
- 55. Electrical activity of brain during brain mapping can be recorded by
- 1. fMRI
- 2. ECG
- 3. EEG 4. Polygraphy
- 56. Recently gene therapy for mutated gene has been experimentally proven in mouse utilizing
- 1. Winged P elements
- 2. Cre-Lox system
- 3. Non-homologous recombination
- 4. Ac-Ds Elements
- 57. Which technique can not be utilized studying response mechanism for both B and T cell immune response
- 1. Complement Fixation 2.
- 3. Cytotoxicity assay
- 58. Among the following which is not a cell adhesion protein
- 1. Cadherin
- 2. Integrin
- 3. Selectin
- 4. Immunoglobulin
- Which of following is not coded by MHC
- 1. Components of Complement pathway
- 2. Immunoglobulin
- 3. Glycoproteins
- 4. Antigen presenting proteins
- 60. Which is least likely to occur for removal of cancers cells?
- 1. T-Cell based cytotoxicity
- 2. Complement fixation
- 3. Autophagy
- 4. Phagocytosis

- 61. Leukemia inhibiting factor has been utilized in animal cell culture for
- 1. Stimulating growth of cell
- 2. Differentiation
- 3. Morphogenesis
- 4. Arrest cells at mitosis
- 62. Dorsal lip of amphibian is equivalent to chicks
- 1. Hensen node
- 2. Primitive grove
- 3. Animal pole
- 4. Vegetal pole
- 63. Homeotic genes are responsible for
- 1. Maintaining gaps in segments
- 2. Provide gradient in developing embry
- 3. Codes morphogens
- 4. Mutation results in formation of organ at unusual locations
- 64. Mosaic developmental pattern is always
- 1. Autonomous
- 2. Non autonomous
- 3. Conditional
- 4. Regulative
- specialized structure pectin for clear eye ight is characteristic feature of
- **Birds**
- 2. Amphibian
- 3. Nocturanal mammals 4. Aquatic mammals
- Which of the following is not correctly matched
- 1. Chanocytes- Porifera
- 2. Malphigian tubules-Arthropods
- 3. Clitellum-Annelids
- 4. Cnidocytes-Mollusc
- 67. Cytoplasmic streaming results into mobility substances and organalles involves interaction of
- 1. Tubulin, kinesin
- 2. Tubulin, myosin
- 3. Actin, kinesin
- 4. Actin, Myosin
- 68. The main force in membrane resealing of ruptured biomembrane in aqueous environment
- 1. Hydrophobic forces between membrane lipids
- 2. Covalent forces between membrane lipids
- 3. Force between protein and lipids
- 4. Ionic interactions between membrane lipids
- 69. What would happen if lysosome membrane leaks its digestive enzyme in cytosol
- 1. Acid hydrolases will be inactivated
- 2. Acid hydrolases will digest the cellular components
- 3. pH of cell will increase
- 4. It will cause I-cell disease

- 70. The maximum ionic interaction would be observed
- 1. In presence of polar solvent
- 2. In presence of mixture of water and alcohol
- 3. Almost equal in all kinds of solvents
- 4. When ionic compound is out of the solvents
- 71. Regulation of trp operon by binding of trytophan to trp repressor is termed as
- 1. Repression
- 2. Induction
- 3. Anti termination
- 4. Atteneution
- 72. In salt tolerance plant the excess salt is transported to vacoule by
- 1. Na-H+ Antiporter
- 2. Na-K+ Pump
- 3. Na-Cl- symporter
- 4. Na-H+ Ppase
- 73. Post translational modification take place in
- 1. Nucleus
- 2. Mitochondria
- 3. Ribosome
- 4. Endoplasmic reticulum
- 74. Which technique can not be utilized for detection of microdeletion on Y chromosome
- 1. Karyotyping
- 2. PCR
- 3. Microarray
- 4. Hybridization
- 75. Individuals having X chromosome and shor arm of Y chromosome are Y is male while individuals having X chromosome and long arm of Y chromosome are female. This shows that
- 1. Genes for maleness are located on short arm of Y chromosome
- 2. Genes for maleness are located on long arm of Y chromosome
- 3. Genes for maleness are located on X chromosome
- 4. Male determining genes are not located on Y chromosome
- 76. if a cell has 'c' as the DNA content of cell and 'n' as the number of chromosomes, then just immediately before the cell division in case of mitosis what would be value of 'c' and 'n'
- 1. 2c and 4n
- 2. 4c and 2n
- 3. 4c and 4n
- 4. 2c and 2n
- 77. Which equation best describes the bacterial population growth (**IFAS Answer 1**)

$$\frac{dN}{dt} = KN$$

$$\frac{dN}{dt} = \lambda$$

$$\frac{dt}{dN} = KN$$

$$\frac{dN}{dt} = K$$

- 78. Genetic disorder xeroderma pigmentosum is due to error in
- 1. Base exicision repair mechanism
- 2. Nucleotide excision repair mechanism
- 3. Direct repair mechanism
- 4. DNA replication mechanism
- 79. In Lederbergs experiment which one of the following option they have used to prove their historical experiment
- 1. One auxotroph and one prototroph
- 2. Two auxotroph and two prototroph
- 3. Two auxotrophs
- 4. Two prototrophs
- 80. Among the following which is inhibitor of 80S ribosome
- 1. Tetracycline
- . Streptomycin
- 3. Cyclohexamide
- 4. Chloromphenicol
- 81. Diphtheria toxin causes
- 1. ADP ribosylation of EF-2
- 2. ADP ribosylation of EF1 α
- 3. Blocking activity of RNA polymerase
- 4. Blocking DNA replication process
- 82. Effect of release of IP₃ during signal transduction pathway is
- 1. Closure of Ca²⁺ channel in ER
- 2. Increase in intracellular Ca²⁺ level
- 3. Increase of extracellular Ca²⁺ level
- 4. Inactivation of calmodulin proteins
- 83. Dorsal mutant in Drosophila will result in
- 1. Dorsalization of ventral side
- 2. Ventralization of dorsal side
- 3. There would be no effect
- 4. Anterior-posterior pattern formation will be effected
- 84. Intracellular negative potential and extracellular positive potential occurs in
- 1. In all cells
- 2. In neurons
- 3. In kidney cells
- 4. In liver cells
- 85. A major functional difference between the succinyl CoA-synthetase of plant and animal cell mitochondria is that it
- 1. Does not produce ATP in plant cell.
- 2. Produce UTP in plant cell.
- 3. Produces ATP in plants and GTP in animal.
- 4. Produces GTP in plants and ATP in animals.
- 86. Among the following which is not monitered as daily potential pollutant
- 1. CO
- 2. CO₂
- 3.50_{2}
- $4. NO_x$

- 87. In plant lateral root initiates from
- 1. Pericvcle
- 2. Cortex
- 3. Pith
- 4. Endodermis
- 88. Oxygenase activity of RUBISCO generates
- 1. Two molecules of PGA (3C)
- 2. Two molecules of Phosphoglycolate (2C)
- 3. One molecule each of PGA phosphoglycolate
- 4. Two molecules each of PGA and phosphoglycolate
- 89. Plant family having characteristic umbel inflorescence is
- 1. Asteraceae
- 2. Acanthaceae
- 3. Apiaceae
- 4. Poaceae
- 90. Dendrogram in numerical taxonomy represents
- 1. Phenetic similarties
- 2. Phlogenetic similaraties
- 3. Evoltionary similarties
- 4. No similiraties
- 91. A plant with genotype r+h+/ r-h- was test crossed. Out of total 280 progeny 260 are r+h+/ r-h- and r-h-/ r-h-. The recombination frequency will be

2.46.4

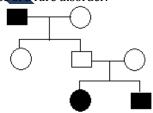
4.3.6

1.92.8 3.7.2

92. Genetic mapping reveals that between two genes 'A' and 'B' is 10 cM. What chance of getting Aabb progeny if AaBb is crossed?

1.5% 0 % 3.45%

- 93. The regulators of circadyn rythms in plants
- Phytochromes 1. Phycobillins 3. Phototropins Cryotophores
- The following pedigree represents the of a rare disorder. eritance



Based on the above pedigree, what is the most likely mode of inheritance?

- 1. Autosomal dominant
- 2. X-linked recessive
- 3. X-linked dominant
- 4. Autosomal recessive

- 95. Quantitative inheritence defines
- 1. Variation in phenotype
- 2. Variation in genotype
- 3. Variation in enviornment
- 4. Variation in genes
- 96. Which of the following which is not intrinsic

1. Tryptophan 2. Phenyl alanine 3. Tyrosine 4. Histidine

- 97. Among the following which group has maximum number of endangered and critically endangered species as per IUCN red data list?
- 1. Amphibian

c. Mammals

- 98. Germination of oth b in dark is an example of
- 1. Photomorphogenesis
- 2. Skotomorpho genesis
- 3. de-etiolation
- hadding effect
- 9. Birds besides lungs have highly branched air cs. The major function of air sac is to
- 1. Increase surface area for gas exchange
- Help in ventilation during inhalation
- . Help in ventilation during exhalation
- 4. Help in ventilation during both inhalation and exhalation
- 100. Which is correct hierchical sequence in taxonomy?
- 1. Phylum-Class-Order-Family-Genus
- 2. Class-Phylum-Order-Family-Genus
- 3. Phylum-Class-Family-Order-Genus
- 4. Phylum-Class-Order-Genus-Family
- 101. Among the following which molecule has been frequently used for molecular systematics 2. Cytochrome C

1. Insulin

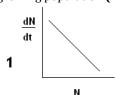
3. Globin 4. Collagen

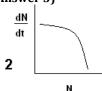
- 102. Rate of molecular evolution would be least
- 1. Non-synonymous change in codon
- 2. Synonymous change in codon
- 3. Flanking regions of genes
- 4. Introns of genes
- 103. The most probable place where life would have originated
- 1. Outer space
- 2. Barren rocks
- 3. In oceans
- 4. Deep hydrotheral vents

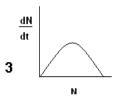
104. In population of 10 million individuals birth rate is 19 per 1000 and death rate is 14 per 1000. Annual rise in population would be

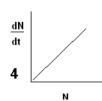
- 1.50.000
- 2.5,000
- 3.14,000
- 4.500,000

105. Which of the following curves represents the general relationship between population size (N) and growth rate (dN/dt) for logistically growing population (IFAS Answer 3)









106. Which factor is least responsible for general drift?

- 1. Migration
- 2. Founder effect
- 3. Bottleneck

4. Restriction of resources

- 107. In spite of the prevalence of herbivory earth continues to be largely green because
- the number of herbivore species.
 herbivores are very inefficient species is low.
- 3. herbivore numbers are kept low by their predators.
- 4. herbivory promotes plant growth.

108. Biomass turnover time is the ratio between biomass and productivity of an ecosystem. of the following forests should have highest biomass turnover time?

- 1. Tropical dry forests
- 2. Tropical wet forests
- 3. Temperate deciduous forests
- 4. Boreal forests

109. Smoth movement of bacteria during chemitaxis is due to

- 1. Due to tumbling
- 2. Phosphorylation of CheY
- 3. Movement of H⁺ across plasma membrane
- 4. Phosphorylation of Che A

110. Which statement is least likely to be observed amongst the animals showing extensive parental care

- 1. Male polygamous
- 2. Sexual dimorphism
- 3. Difference in body size of male and female

4. No investement in selection of mates by females

111. Mucous which covers the epithelial lining of stomach and protects it form protease activity is secreted by

- 1. Goblet cells
- 2. Parietal cells
- 3. Microvilli
- 4. Aciner cells

ith two alleles 'b' and 'B' 112. In a population v 0.7 and 0.3 in Hardyhaving allele reguen Weinberg equilibrium, how many individuals in can be expected to be a sample heteroz

- 2.105 3. 2 4.42
- Starling birds orient themselves by sunlight during migration. If they are kept in capativity with artificial light source form one direction,
- 1. They will stop migration
- 2. They will orient toward light source

3. They will orient themselves with change in 15° angle every hour from direction of light

4. Moves all around the artificial light

114. Maximum density of dopamine and noradregenic receptor occurs at

- 1. Cerebellum
- 2. Cerebellem
- 3. Medulla oblangata
- 4. Spinal cord

115. Chitin occurs in cell wall of

- 2. Arthropods 1. Bacteria 2. Fungus 4. Mollusck
- 116. The emergence of polarity of an embryo is the result of
- 1. Positive and negative charges interacting in early development.
- 2. cytoplasmic differences between cells.
- 3. cytoplasmic determinants within cells.
- 4. All of the above

117. Which anticancerous drug is obtained from Catharanthus roseus?

1. Taxol 2. Vincristine 3. Colchicine 4. Serpentine

- 118. The principle for formation of image in phase contrast microscopy
- 1. interference of light waves
- 2. Negative staining of object
- 3. Use of fluorscent probes
- 4. Enhancing contrast by differentiating the change in phase of light passed through specimen coming from ½ angle of cone of light entering through objective lens.
- 119. Yeast with petite colony when crossed with wild type generates no petite colony. The most proable mode of inheritence is
- 1. Chloroplast
- 2. Mitochondria
- 3. Episomal
- 4. Nuclear
- 120. An oligonucleotide DNA sequence tagged with fluroscent tag used to identify unknown gene by hybridisation is termed as
- 1. Probe
- 2. Reporter gene
- 3. Ligand
- 4. C-DNA
- 121. A protein which is to be degraded in proteasome is tagged with
- 1. Polyglycine
- 2. Polyproline
- 3. Ubiquitin
- 4. Formyl methionine
- 122. Bacteria divides by
- 1. Binary fission
- 2. Mitosis
- 3. Fragementation
- 4. Meiosis
- 123. Shigella enters into host cell by process of
- 1. Cell-Cell fusion
- 2. Calthrin coated pits
- 3. By exploiting host cell organalles
- 4. Phagocytosis
- 124. Among the following which activity is absent in bacterial DNA polymerase I
- 1. 5' \rightarrow 3' Polymerase activity
- 2. 3'→5' Polymerase activity
- 3. 5' \rightarrow 3' Exonuclease activity
- 4. 3'→5' Exonuclease activity
- 125. In a hybridization experiment a plant shows phenotypic ratio of 15:1. How many genes control the trait for observed phenotypic ratio?
- One
 Two
 Polygene

- 126. A cross between a red eyed male fly abd white eyed female fly produces red eyed female and white eyed male progenies. While reciprocal cross produces all offsprings with red eyes. The trait for eye color is
- 1. Sex linked traits
- 2. Sex influenced trait
- 3. Sex linked homogametic male
- 4. Sex linked heterogametic male
- 127. In which biogeographic region you would find Nilgiri-tahr trees
- 1. Shola grasslands
- 2. Nilgiri forests
- 3. Shola grasslands and nilgiri forests
- 4. at high altitudes of south-western ghats
- 128. Charateristic dominant grasses in Brahamputra, Ganga and Punjab plains respectively are
- 1. Alphinia, Eichtnochloa, Cenchrus
- 2. Saccharum, Alphinia, Sachharum
- 3. Cenchrus, Eichinochloa, Sachharum
- 4. Sacharum, Cenchrus, Alphinia
- 129. When release factor binds to stop codon on m-RNA during translation, the synthesized peptide chain is transferred to
- 1. t-RNA
- 2. Water
- 3. H+
- 4. Amino acids
- 130. Location of Glutamate synthatase, an important enzyme in nitrogen assimilation is is
- 1. Only cytoplasm
- 2. Only chloroplast
- 3. Both in cytoplasm and chloroplast
- 4. In Endoplasmic reticulum
- 131. Which is true for β -oxidation of fatty acids
- 1. Formation of malonyl CoA
- 2. Formation of acetoacetyl ACP
- 3. Transport of acyl CoA into mitochondria
- 4. Use of NADPH₂
- 132. Which radioisotope is generally incorporated in thymine to study DNA replication process

1. ³²P 2. ³⁵S 3. ³H 4. ¹⁴C

- 133. Which technique is used to study de novo RNA SYNTHESIS?
- 1. Southern blotting
- 2. Northern blotting
- 3. Micorarray
- 4. RT-PCR

- 134. Enzymes accelerates rate of reaction by
- 1. Lowering number of transition states
- 2. Lowering the activation energy of highest transition state
- 3. Providing energy to substrate
- 4. Providing more chance to substrates to react
- 135. Enzymes donot interfere with
- 1. Free energy of reaction
- 2. Rate of reaction
- 3. Activation energy of transition state
- 4. Reaction equilibrium
- 136. When oxygen-haemoglobin curve shift to left it represents
- 1. Decrease in pH
- 2. Decrease in CO₂ level
- 3. Rise in concentration of 2,3 BPG
- 4. more affinity for oxygen
- 137. The major role of 2,3 BPG formed during glycolysis in RBC is for hemoglobin is
- 1. Increasing affinity for oxygen
- 2. Decreasing affinity for oxygen
- 3. Increasing affinity for CO₂
- 4. Decreasing affinity for CO₂
- 138. As we move from one geographical re to next neighbouring region, species diver tends to change. It is termed as
- 1. α-Diversity
- 2. β-Diversity
- 3. γ-Diversity
- 4. δ-Diversity
- 139. Covalent bond formation between two atoms takes place by
- 1. Transfer of electron from one atom to other
- 2. One side sharing of electrons
- **3. Electon sharing by both interacting atoms** 4. Affinity between two atoms
- O. Globular protein when treated with organic solvent get denatured. The main interaction which is affected on treatment with organic solvent is
- 1. Hydrogen bonds
- 2. Covalent bonds
- 3. Ionic interactions
- 4. Hydrophobic interactions

- IFAS is not responsible for any errors or confusion.
- suggestion/correction Any is welcome

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CORRESPONDENECE STUDY MATERIAL AVAILABLE AS PER REVSIED SYLLABUS