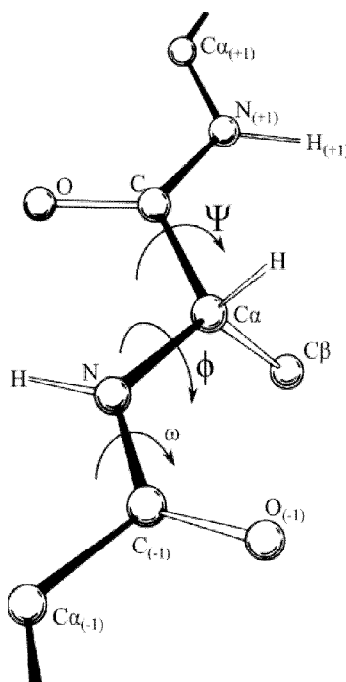


- Name the single kingdom of Whittaker's five kingdom system of classification that includes the blue-green algae, nitrogen fixing bacteria and methanogenic archaebacteria.
A) Plantae B) Protista C) Monera D) Fungi
- Protein structure depicted by Ramachandran plot, the values of the dihedral angle ψ (psi) is based on rotation around



- N- $C\alpha$ bond B) $C\alpha$ -C' bond C) C'-N bond D) N-H bond
- Select the correct group from the following that the leaves are modified into tendrils, hooks, pitcher, and bladder in the following plants respectively:
A) Sweet Pea, Bignonia, Nepenthes, Utricularia
B) Sweet Pea, Bignonia, Utricularia, Nepenthes,
C) Nepenthes, Bignonia, Sweet Pea, Utricularia
D) Bignonia, Nepenthes, , Sweet Pea Utricularia,
 - Which of the following is the general mechanism of action for erythromycin?
A) Derailment of protein synthesis
B) Inhibition of metabolic enzymes
C) Blocking of nucleic acid transcription and replication
D) Inhibition of cell wall formation
 - Usnic acid, a dibenzofuran derivative has been utilized in medicine, perfumery and cosmetics This was isolated by the German scientist W. Knop in 1844. Name the lichen/s yield usnic acid
A) Usnea B) Cladonia C) Lecanora D) All the above

6. Immersion oil can be employed to enhance the resolution achieved with some microscope Lenses because it increases the ----- between the specimen and the objective lens.
- Optical density
 - Optical density and refractive index
 - Refractive index
 - Neither optical density nor refractive index
7. Identify the family having the ability to produce cyanogenic glycosides as a chemotaxonomic marker character
- Rosaceae
 - Poaceae
 - Leguminosae
 - All the above
8. The information which is represented by a signal and is detected by specific receptors that will be converted in to a cellular response; this conversion is
- Signal amplification
 - Signal transduction
 - Signal transversion
 - Signal integration
9. Electrophoresis of a purified protein in SDS-PAGE in the presence of the detergent 2-mercaptoethanol yields two bands of mass 35 kDa and 45 kDa. However, in a gel filtration chromatography, the same protein elutes as 80 kDa. What conclusion can be drawn from the results?
- The protein is not at all purified to homogeneity.
 - Two bands generated in SDS-PAGE due to disintegration.
 - The protein is a homodimer
 - The protein is a heterodimer
10. Basic dyes like methylene blue bind to cellular molecules that are:
- Hydrophobic
 - Positively charged
 - Neutral
 - Negatively charged
11. Select the correct pair:
- | | Column I | | Column II |
|-----|--------------------|---|------------------|
| (a) | Unilocular Ovary | 1 | Petunia |
| (b) | Bilocular Ovary | 2 | Asparagus |
| (c) | Trilocular Ovary | 3 | Hibiscus |
| (d) | Pentalocular Ovary | 4 | Sunflower |
- a- 4, b-3, c-2, d- 1
 - a- 4,b-1, c-2, d- 3
 - a- 1, b-2,c- 4, d-3
 - a -2, b-1, c- 3, d-4
12. Trees with resin; coracious leaves; flower actionomorphic, hermaphrodite, sepals 5, polysepalous, persistent; petals 5, polypetalous; stamens many in one to several whorls, slightly polyandrous, carpels 3, syncarpous, superior; Fruit samara with persistent sepals
- Magnoliaceae
 - Anacardiaceae
 - Tiliaceae
 - Dipetrocarpaceae

13. Read the following and select the correct statements
1. Polysiphonia, a red algae possess highly branched filaments each with a central axial filament supporting pericentral cells. The number of pericentral cells is 4–24.
 2. The diploid zygote develops to become the carposporophyte, this is a separate phase of the life-cycle and is entirely parasitic on the female
 3. The tetrasporophyte is diploid and produced spores in fours after meiosis
- A) 1 & 2 only B) 2 & 3 only C) 1 only D) 1, 2 & 3
14. The commercial fiber of jute belongs to the category:
- A) Hard fiber B) Surface fiber C) Bast fiber D) Xylem fiber
15. A messenger molecule is 336 nucleotides long, including the initiator and termination codons. The number of amino acids in the protein translated from this mRNA
- A) 999 B) 112 C) 111 D) 110
16. When does the synaptonemal complex disappear?
- A) Late prophase of meiosis I
 B) During fertilization or fusion of gametes
 C) Early anaphase of meiosis I
 D) Late metaphase of meiosis II
17. In the Meselson-Stahl DNA replication experiment, if the cells were first grown for many generations in ^{15}N containing media, and then switched to ^{14}N containing media, what percent of the DNA had 1 light strand and 1 heavy strand after 2 generations of growth in ^{14}N growth media?
- A) 25 B) 50 C) 100 D) 75
18. Algae possess great diversity in plastids shape. Which among them have reticulate chloroplast?
- A) Oedogonium B) Spirogyra
 C) Hydrodictyon D) All the above
19. In the typification, the specimen designated from the original material as the nomenclatural type, in conformity with Art. 9.9 and 9.10, if no holotype was indicated at the time of publication, or if it is missing, or if it is found to belong to more than one taxon is known as
- A) Isotype B) Lectotype
 C) Neotype D) Paratype
20. What is added to the 3'-end of many eukaryotic mRNAs after transcription?
- A) Introns
 B) a poly A tail
 C) a cap structure, consisting of a modified G nucleotide
 D) the trinucleotide 5'-CCA

21. Match the chromatographic technique from Group A with the appropriate elution conditions given in Group B

Group A	Group B
1. Chromato focusing	a. Decreasing $[(\text{NH}_4)_2\text{SO}_4]$ gradient
2. DEAE-Sephadex	b. pH gradient
3. G-150 Sephadex	c. Isocratic gradient
4. Phenyl Speharose	d. Increasing NaCl gradient

- A) 1-b, 2-d, 3-c, 4-a B) 1-a, 2-d, 3-c, 4-b
 C) 1-d, 2-c, 3-b, 4-a D) 1-c, 2-a, 3-b, 4-d
22. The chemotherapy drug cytarabine is an anti-metabolite similar to the nucleotide cytosine. The drug kills cancer cells by stopping them making and repairing DNA. At which stage in the cell cycle will cytarabine be incorporated into?
 A) G1 B) G2 C) S D) M
23. The oldest fossil bryophyte recorded is a species of:
 A) Ricciopsis B) Hepaticites
 C) Marchantites D) Muscites
24. Consider the following Statements regarding Ecotone:
 1. It is a zone of junction between two or more diverse ecosystems.
 2. Grass land forests are example for ecotone ecosystems.
 3. Generally, species diversity is higher in ecotone than the adjacent ecosystems
 Choose the correct statements:
 A) 1 only B) 2 & 3 only
 C) 1, 2 & 3 D) 1 & 2 only
25. In the Eltons ecological pyramids, the structure of decreasing biomass with increasing trophic level in a terrestrial ecosystem is a consequence of-----
 A) The second law of thermodynamics
 B) Bio-magnification
 C) Conservation of energy
 D) Increasing competition at higher trophic levels
26. Which ecosystem possesses the mean lowest net primary productivity per unit area?
 A) An open ocean B) A coral reef
 C) An estuary D) A fresh water lake
27. Darwin's ideas on evolution by natural selection was influenced by
 A) Meselson and Stahl B) Watson and Crick
 C) Lyell and Malthus D) Miller and Urey
28. Consider the following Statements regarding pioneer species:
 1. The plants that invade first in a barren land, where soil is initially absent are called pioneer species.
 2. A pioneer species generally display low growth rate with high life span. Identify the correct statements:
 A) 1 only B) 2 only
 C) All of them are correct D) Neither 1 nor 2

29. Puddling is carried in horticulture to:
- A) Reduce percolation of water B) Pulverise and levelling soil
 C) Kill weeds D) All of the above
30. As the E value of a BLAST search becomes smaller
- A) The value K also becomes smaller
 B) The score tends to be larger
 C) The probability p tends to be larger
 D) The extreme value distribution becomes less skewed
31. EST division of EMBL database archives data in
- A) Only 5' to 3' direction
 B) Only 3' to 5' direction
 C) Both 5' to 3' and 3' to 5' to represent clones from two ends
 D) Either 5' to 3' or 3' to 5'
32. Read the following statement and answer the question:
 Statement I: In a normal distribution, the quartile deviation, the mean deviation about mean and the standard deviation are approximately 10:12:15
 Statement II: The standard deviation of 10 items is 4. If each item is increased by 2, the standard deviation will become 6.
- A) Both statements are correct B) Statement I only is correct
 C) Statement II only is correct D) Both statements are wrong
33. Synthesis of biodiesel from algal resource is an example of the process namely
- A) Carbon negative B) Carbon positive
 C) Carbon and nitrogen positive D) Carbon neutral
34. Select the wrong pair from the given options
- A) Hypertrophy: abnormal increase in size of organ
 B) Hyperplasia: abnormal increase in number of cells of the organ
 C) Atrophy: inhibition of growth of dwarfing
 D) Necrosis: death of plant
35. A micro array is an ordered array of microscopic elements on a planer substrate that allows the specific binding of
- A) Whole genome B) Gene or gene products
 C) Both A and B D) None of these
36. Resistance to glyphosphate in transgenic petunia plants has been developed by the transfer of
- A) Gene for EPSPS (5-enol-pyruvyl shikimat 3 phosphate synthase)
 B) Gene for GS (glutamine synthase)
 C) Gene for ALS (acetolactate synthase)
 D) None of these
37. The Plant Breeders' Rights (PBR) cannot be granted to any variety. If so which among the following are the basic requirements for protection of a variety under Plant Breeders' Rights.
- (i) Novelty (ii) Distinctiveness (iii) Uniformity (iv) Stability
- A) i & ii B) i & iii C) i, ii & iii D) All the above

38. Which of the following statements regarding the regulation of trp operon expression by attenuation is correct?
- Rapid translation of the leader peptide prevents completion of mRNA transcript
 - Rapid translation of the leader peptide allows completion of mRNA transcript
 - The leader peptide sequence encodes enzymes required for tryptophan synthesis
 - The leader peptide sequence contains no tryptophan residues
39. Marchantia, the liverwort is characterized by
- Female organs are known as archegonia and are protected by the thin surrounding perichaetum
 - Antheridia are enclosed by a protective layer of cells called the perigonium
 - Male gametes are produced in numerous and multiflagellate
- A) 1 & 2 only B) 2 & 3 only C) 1 only D) 1, 2 & 3
40. Copal belongs to the group hard resins which contain only a little essential oil and much valued in the varnish industry because of their high melting point and hardness. Name the plant which yields copal
- A) Agathis B) Picea C) Pinus D) Cryptomeria
41. Which of the following would INHIBIT the onset of mitosis?
- Binding of M Cyclin to Cdk
 - Phosphorylation of Cdk by Wee1
 - Phosphorylation of Wee1 by Cdk
 - Dephosphorylation of Cdk by Cdc25
42. Lac repressor dissociates from its operator when the repressor binds to
- Heat shock module
 - Promoter
 - Inducer
 - Catabolite activator site
43. Which one of the following statement is correctly correlated with morphology vs plant species?
- In tomato, fruit is capsule
 - Seeds of orchids have oil –rich endosperm
 - Placentation in primrose is basal
 - Flower of tulip is a modified shoot.
44. A DNA molecules labeled with ^{15}N and ^{14}N and can be separated by ----- technique
- Pulse field gel electrophoresis
 - Density gradient ultracentrifugation
 - Capillary electrophoresis
 - Differential centrifugation
45. Along with Jatropha, the seed oil, which among the following plant has been found to be useful in diesel generators being explored in many research organizations throughout India and other developing countries as feedstock for biodiesel?
- Arachis hypogea
 - Pongamia pinnata
 - Butea monosperma
 - Pterocarpus santalinus
46. Typical resolution of electron microscope (EM) is -----
- A) 0.05 nm B) 0.5 nm C) 1 nm D) 100 nm
47. ----- hormone applied to marketed vegetables can keep them fresh for several days. Shelf life of cut shoots and flowers is prolonged by employing the same hormone.
- Gibberellins
 - Cytokinins
 - Auxins
 - Ethylene.

48. Observe the following fatty acids and identify the saturated fatty acids from the following categories?
- | | |
|--------------------------------|------------------------------------|
| A) Lauric, Myristic, Arachidic | B) Palmitic, Linoleic, Arachidonic |
| C) Capric, Stearic & Oleic | D) Behenic, Caprylic, Arachidonic |
49. Global warming is triggered by greenhouse gases (GHG). The most potent GHG among the following is -----?
- | | | | |
|-------------------|------------|-----------------|----------|
| A) Carbon dioxide | B) Methane | C) Water Vapour | D) Ozone |
|-------------------|------------|-----------------|----------|
50. A common human telomere consists of 5'-GGTTAG-3' repeated up to 2,000 times at the ends of each chromosome. During each cycle of mitosis, approximately 100 base pairs are lost from each telomeric end. If a chromosome consists of 1,500 repeats of the sequence at each end, how many mitotic divisions can occur before the telomeres are completely gone?
- | | | | |
|--------|-------|-------|--------|
| A) 100 | B) 90 | C) 80 | D) 110 |
|--------|-------|-------|--------|
51. The Siberian Crane, an endangered migratory bird is a regular visitor of which of the following national park/bird sanctuaries:
- | | |
|---------------------------------|-----------------------------|
| A) Ranganathittu bird sanctuary | B) Keoladeo national park |
| C) Vedanthangal bird sanctuary | D) Sultanpur bird sanctuary |
52. Some plants won't bloom without vernalization. The biennials form their vegetative body in the first year. Then they pass through a winter season and then produce flowers and fruits in the second year. By exogenous application of ----- many biennials can be induced to behave as annuals and they no more require the natural chilling treatment for their flowering.
- | | |
|-----------------|---------------|
| A) Gibberellins | B) Cytokinins |
| C) Auxins | D) Ethylene |
53. Name the genus which possess siphonostele having a single phloem ring external to the xylem is called as ectophloic siphonostele
- | | |
|-------------|---------------|
| A) Adiantum | B) Dryopteris |
| C) Marsilea | D) Equisetum |
54. The sensitive technique that is used in histochemistry that can be used to identify the presence of DNA than RNA is
- | | |
|-----------------------|-------------------|
| A) Perls's Reaction | B) Sakaguchi Test |
| C) Feulgen's Reaction | D) PAS reaction |
55. The glycosylation process of the proteins occurs in ----- organelle/ part of the cell
- | | |
|--------------------|--------------------|
| A) Glyoxysomes | B) Lysosomes |
| C) Golgi apparatus | D) Plasma membrane |
56. Flowers are irregular and bisexual, 5 sepals but usually 3 green outer sepals and 2 petal-like inner sepals. United petals, usually fused with the stamens, and the lower petal is often fringed. There are 8 stamens, fused to the petals. The ovary is positioned superior. It consists of 2 united carpels with the partition walls present, forming an equal number of chambers. It matures as a capsule, nut, or drupe
- | | |
|------------------|--------------------|
| A) Ranunculaceae | B) Caryophyllaceae |
| C) Portulacaceae | D) Polygalaceae |

57. The Cartagena Protocol is regarding safe use, transfer and handling of:
- Nuclear waste
 - Invasive Alien Species
 - Living Modified Organisms (LMOs)
 - Toxic by-products and industrial effluents
58. Match the mineral element with its functions/roles and select the correct option from the given below
- | | | |
|---------------|----|--|
| a. Boron | 1 | Splitting of H ₂ O to evolve O ₂ during photosynthetic event |
| b. Manganese | 2. | Needed for synthesis of the hormone auxins |
| c. Molybdenum | 3. | The component of nitrogenase enzyme system |
| d. Zinc | 4. | Facilitates Pollen germination |
| e. Iron | 5. | Component of ferredoxin |

Options

- | | |
|----------------------------|----------------------------|
| A) a-1, b-2, c-3, d-4, e-5 | B) a-4, b-1, c-3, d-2, e-5 |
| C) a-3, b-2, c-4, d-5, e-1 | D) a-2, b-3, c-5, d-1, e-4 |
59. Alternative splicing is a process that enables the number of proteins produced by an organism to be vastly greater than its number of genes. How is this possible?
- Codons can code for more than one amino acid
 - Recombinant technology is able to translate different proteins from the same gene.
 - Depending on what sections are treated as introns and exons, different proteins can be made from the same gene.
 - The anticodon of tRNA has a wobble effect that allows a variety of translations per gene.
60. The family/families possess(es) accessory vascular bundles in the pith - medullary bundles, and in the cortex- cortical bundles either in rings or irregularly:
- Bignoniaceae
 - Amaranthaceae
 - Nyctaginaceae
 - Both B & C

61. Match the column I with II

Column I	Column II
1. Antherozoids are spirally coiled and multi- flagellated	a. Lycopsidea
2. Spores may be homosporous or heterosporous	b. Psilotopsida
3. Gametophytes are exosporic and green	c. Sphenopsida

- | | |
|-----------------------|---------------------|
| A) 1- a, 2 - b, 3 - c | B) 1- b, 2- a, 3- c |
| C) 1- c, 2 - b, 3 - a | D) 1- a, 2- c, 3- b |
62. Match the column I (pathogen) with II (Disease)

Column I	Column II
1. Alternaria	a. Early blight of potato
2. Ustilago	b. Loose smut of wheat
3. Phytophthora	c. Late blight
4. Peronosporales	d. Downy mildews

- | | |
|-------------------------------|-------------------------------|
| A) 1- a, 2 - b, 3 - c, 4 - d | B) 1- d, 2 - c, 3 - b, 4 - a |
| C) 1- c, 2 - d, 3 - a , 4 - b | D) 1 - a, 2 - c, 3 - b, 4 - d |

83. Reserpine used in the treatment of hypertension is derived from:
 A) The fruit of *Rauwolfia serpentina* B) The Leaves of *Rauwolfia serpentina*
 C) The root of *Rauwolfia serpentina* D) The flowers of *Rauwolfia serpentina*
84. W. Harshberger and Richard Evans are famous:
 A) Geneticists B) Plant physiologists
 C) Phytochemists D) Ethnobotanists
85. During anomalous secondary thickening in the monocot *Dracaena* cambium develop from the:
 A) Pericycle or innermost cells of the cortex
 B) Fusion of fascicular and inter-fascicular cambium
 C) Outer cortex
 D) Middle cortex
86. The chemical used in the histochemical localization of lipids is:
 A) Coomassie Brilliant Blue B) Sudan Black
 C) PAS D) Ethidium Bromide
87. Which of the following is a method to overcome incompatibility without gametic fusion?
 A) Intra ovarian pollination B) In vitro fertilization
 C) Embryo rescue D) Parasexual hybridization
88. Melissopalynology is:
 A) Pollen analysis of air
 B) Pollen analysis of honey
 C) Palynology applied to taxonomy
 D) Use of palynology in the study of petroleum resources
89. Which is not a type of embryo sac development?
 A) Monosporic B) Bisporic C) Trisporic D) Tetrasporic
90. Water selective channels formed by integral membrane proteins to facilitate movement of water across the membrane are specifically called
 A) Transport proteins B) Membrane proteins
 C) Aquaporins D) Aquaproteins
91. Which of the following contain(s) copper?
 A) Plastocyanin B) Leghemoglobin
 C) Cytochrome oxidase D) A and C
92. Plants absorb nitrogen mainly in the form of:
 A) Molecular nitrogen from the atmosphere
 B) Aminoacids provided by mycorrhiza
 C) Nitrates and nitrites from the soil
 D) Ammonia from the soil
93. Light compensation point is:
 A) The intensity of light at which the rate of photosynthesis (CO_2 uptake) is equal to the rate of respiration (CO_2 release)
 B) The intensity of light at which the rate of photosynthesis is optimum
 C) The minimum intensity of light which is required for photosynthesis to occur
 D) The maximum intensity of light at which photosynthesis can occur

94. Which of the following is not a C₄ plant?
 A) Sugar cane B) Maize C) Wheat D) Amaranthus
95. Glycolytic part of respiration occurs in the
 A) Cytosol B) Mitochondria C) Peroxisomes D) Glyoxisomes
96. According to their longevity and ability to tolerate desiccation and freezing seeds are classified as orthodox and unorthodox. Short-lived seeds unable to withstand desiccation and freezing without losing viability are called
 A) Orthodox seeds B) Unorthodox seeds
 C) Recalcitrant seeds D) Both B and C
97. Cell elongation, apical dominance, root initiation and induction of parthenocarpy are effects of:
 A) Auxins B) Gibberellins
 C) Cytokinins D) Ethylene
98. Calcium concentrations in plant cells is regulated by:
 A) Calmodulin B) Caldesmon
 C) Calsequestrin D) Calcineurin
99. Which of the following is an important signaling agent in plant defense responses?
 A) Brassinosteroids B) Cytokinins
 C) Jasmonic acid D) Ethylene
100. In water stressed plants which of the following amino acids accumulate to maintain osmotic relation of the cells?
 A) Leucine B) Glycine C) Proline D) Methionine
101. Henderson and Hasselbalch equation concerns:
 A) Ionization of weak acids B) Ionization of strong acids
 C) Mass flow of solutes D) Mass flow of solutions
102. Which of the following is not a reducing sugar?
 A) Ribose B) Maltose C) Glucose D) Sucrose
103. The intense blue colour of the product of Ninhydrin Reaction depends on the presence of:
 A) Amino acids having alpha amino groups
 B) Amino acids having sulphur
 C) Amino acids having more than one carboxyl groups
 D) Amino acids having more than one amino groups
104. Omega-3 fatty acids are:
 A) Saturated fatty acids present in fish and walnut
 B) Unsaturated fatty acids present in animal meat
 C) Poly unsaturated fatty acids abundantly present in leafy vegetable
 D) Poly unsaturated fatty acids present in fish and walnut

105. Which law of thermodynamics is concerned with Entropy?
 A) First law of thermodynamics
 B) Second law of thermodynamics
 C) Both first and Second laws of thermodynamics
 D) Neither the first nor the Second law of thermodynamics
106. Cerenkov radiation appears as a:
 A) Blue underwater radiation around the reactor core
 B) Faint red underwater radiation around the reactor core
 C) Faint green underwater radiation around the reactor core
 D) None of the above
107. In a certain group of computer personnel, 65% have insufficient knowledge of hardware, 45% have inadequate idea of software and 70% are in either one or both of two categories. What is the probability of people who know software among those who have sufficient knowledge of hardware?
 A) 6/7 B) 6/11 C) 13/14 D) 9/13
108. A dicentric bridge and an acentric fragment may appear during first anaphase of meiosis in a cell with :
 A) Paracentric inversion B) Pericentric inversion
 C) Deletion D) Translocation
109. G proteins involved in signal transduction are active
 A) When it contains a bound GDP
 B) When it contains a bound GTP
 C) Always
 D) When an external signal molecule comes in contact with the plasma membrane
110. Match the following:
 a. Lytic cascade 1. Bacteria
 b. Operon 2. Eukaryotes
 c. Chromatin remodelling 3. Phages
 A) a-1, b- 2, c- 3 B) a- 3, b-1, c-2
 C) a-2, b- 3, c-1 D) a-3, b-2, c-1
111. Which is an example of cytoplasmic inheritance?
 A) Flower colour in *Mirabilis jalapa* B) Comb pattern in poultry
 C) Iojob striping in maize D) Coat colour in mice
112. Which of the following enables us to compare the variability of two or more sets of data?
 A) Variance B) Standard Deviation
 C) Coefficient of variation D) Mean deviation about mean
113. A three point test cross involving genes a, b and c in the same sequence yielded a genetic map a 10 b 20 c . In progeny of 2000 how many can be expected to be of the two double crossover types?
 A) 20 B) 40 C) 80 D) 200

114. A population of 1000 at Hardy-Weinberg equilibrium has 90 homozygous recessive individuals with respect to a Mendelian diallelic locus 'a'. Calculate the number of homozygous dominant (AA) and heterozygous (Aa) members in the above population.
- A) AA = 490 and Aa = 420 B) AA = 500 and Aa = 410
 C) AA = 510 and Aa = 440 D) AA = 420 and Aa = 490
115. India has two of the 18 recognized biodiversity hotspots in the world. They are:
- A) Western Himalayas and Western Ghats
 B) Eastern Himalayas and Eastern Ghats
 C) Eastern Himalayas and Western Ghats
 D) Eastern and western Himalayas
116. The major aim of Montreal protocol is to:
- A) Protect the stratospheric ozone layer by phasing out ozone depleting substances
 B) To reduce global warming by limiting the emission of green house gases
 C) To prevent marine pollution
 D) To protect global biodiversity
117. Which of the following is not a DNA marker?
- A) RFLP B) ISSR C) SNPs D) TBP
118. Which of the following is a data bank exclusively for proteins?
- A) EMBL B) GEN BANK C) DDBJ D) PDB
119. Find the statement which is not true:
- A) Vertical resistance is pathotype-specific and determined by major genes
 B) Horizontal resistance is pathotype-nonspecific and polygenic
 C) Vertical resistance is highly efficient against specific races
 D) Horizontal resistance is equally efficient against all races
120. Match the following:
- | | |
|-----------------------------|----------------------------|
| a. Quick wilt of pepper | 1. Oidium heveae |
| b. Coffee rust | 2. Phytophthora capsici |
| c. Powdery mildew of rubber | 3. Cephaleuros parasiticus |
| d. Red rust of tea | 4. Hemileia vastatrix |
- A) a- 2, b-4, c-1, d-3 B) a- 1, b-2, c-3, d-4
 C) a-4, b-3, c-2, d-1 D) a-3, b-1, c-4, d-2
