TEACHERS RECRUITMENT BOARD, CHENNAI - 6
Written Competitive Examination for
Recruitment of BRTE in SSA (2008 - 2009)

BOTANY

Time Allowed : 3 Hours [ Maximum Marks : 150

Each question carries four options namely A, B, C and D. Choose one correct option and mark in appropriate place in the OMR Answer Sheet.

1. Who was the Viceroy of India, when the Rowlatt Act was passed?
   A) Lord Irwin       B) Lord Chelmsford
   C) Lord Wavell       D) Lord Wellington.

2. Which one of the following is the softest?
   A) Sodium       B) Aluminium
   C) Iron       D) Lithium.

F-67 | Turn over
3. As a non-member who can participate in the proceedings of either of House of Parliament?
   A) Vice-President  B) Chief Justice
   C) Attorney General  D) Chief Election Commissioner.

4. Which is the river on which Indira Sagar Dam is planned to be constructed?
   A) Mahanadi  B) Godavari
   C) Krishna  D) Narmada.

5. The first astronomer who gave the idea ‘The earth rotates on its axis’, is
   A) Bhaskara  B) Aryabhatta
   C) Varahamihira  D) Kalpana Chawla.

6. Which one of the following angles cannot be constructed using an unmarked ruler and compass only?
   A) 75°  B) 90°
   C) 50°  D) 22 \(\frac{1}{2}\)°.
7. For a Frequency Polygon, the points are plotted against
   A) mid-point of the class interval vs frequency
   B) lower limit of the class interval vs frequency
   C) upper limit of the class interval vs frequency
   D) real limit of the class interval vs frequency.

8. AICTE was established in
   A) November, 1945
   B) November, 1955
   C) November, 1985

9. One of the main publications of John Dewey is
   A) Secrets of Childhood
   B) Education Today
   C) Education of Man

10. According to David Ausubel, "Verbal Learning" is
    A) learning a new language
    B) oral practice
    C) understanding verbal information
    D) passive learning experience.
11. The Southern Regional Office of UGC is in
   A) Hyderabad
   B) Bangalore
   C) Chennai
   D) Mumbai.

12. National Population Policy was evolved in the year
   A) 1976
   B) 1979
   C) 1986
   D) 1977.

13. According to Abraham Maslow, ‘Self-Actualisation’ in the hierarchy is
   A) first step
   B) final step
   C) third step
   D) fourth step.

14. Who is the author of ‘Emile’?
   A) Dewey
   B) Bertrand Russell
   C) Froebel
   D) Rousseau.

15. The university that has no affiliated colleges is
   A) Madras University
   B) Madurai Kamaraj University
   C) Thanjavur Tamil University
   D) Manonmanium Sundaranar University.
16. Human Rights Day is
A) December 10  B) December 7
C) December 26  D) July 17.

17. Which one of the following models is not on curriculum development?
A) The Tylor model  B) The Ausubel’s model
C) The Taba model  D) The Hunkin’s model.

18. The chief objective of pre-primary education is to promote ..................... of the child.
A) physical development  B) mental development
C) social development  D) overall development.

A) கல்வி பாடாளக்கிள் பரிசெய்யம்
B) மாணவச் சிற்றினியாக்கில் அதிகாரிகள்
C) சத்துச் சிற்றினியாக்கில் அதிகாரிகள்
D) இராணுவமாக்கில் சிற்றினியாக்கில் அதிகாரிகள்.
19. If the teacher finds in learner's activities something new or original, then the child is supposed to be
A) intelligent  B) creative
C) critical    D) motivated.

20. Which one of the following is not a learning domain?
A) Cognitive domain  B) Psychomotor domain
C) Physiological domain  D) Affective domain.

21. The technique for analysing the related genes in a DNA restriction fragment is called
A) Northern blotting  B) Western blotting
C) PCR       D) Southern blotting.

22. in protoplast culture .......... is used for the surface sterilization.
A) Mannitol       B) Sorbitol
C) Sodium hypochlorite  D) Polyethylene glycol.
23. Scientific name for white button mushroom is
A) Volvariella displasia  B) Volvariella valvacea
C) Pleurotus sojar-caju  D) Agaricus bisporus.

24. Which one of the following is used as SCP?
A) Spirogyra  B) Spirulina
C) Cosmartum  D) Frankia.

25. Another name for introns is
A) Muton  B) Split genes
C) Recon  D) Cistron.

26. ICGEB refers to
A) Indian Council for Genetic Engineering & Biotechnology
B) Indian Centre for Genetics and Environment Biology
C) Indian Centre for Genetic Engineering and Biotechnology
D) International Centre for Genetic Engineering and Biotechnology.

ICGEB பிள்ளைவையேற்பது
A) இந்திய கூட்டமைப்பிற்கு திட்டமிட்டு ஆணையிலே கூட்டமைப்பிற்குக்கு முன்னேறுகைக்கு
B) இந்திய கூட்டமைப்பிற்கு திட்டமிட்டு ஆணையிலே கூட்டமைப்பிற்கு முன்னேறுகைக்கு
C) இந்திய கூட்டமைப்பிற்கு திட்டமிட்டு ஆணையிலே கூட்டமைப்பிற்கு முன்னேறுகைக்கு
D) இந்திய கூட்டமைப்பிற்கு திட்டமிட்டு ஆணையிலே கூட்டமைப்பிற்கு முன்னேறுகைக்கு.
27. Overgrazing, a disturbing phenomenon is categorised under .............. factor.
   A) Edaphic
   B) Biotic
   C) Endemic
   D) Biotic.

28. Ecological pyramids are otherwise called as
   A) Eltonian pyramids
   B) Egyptian pyramids
   C) Modern pyramids
   D) Ancient pyramids.

29. Lead toxicity damages
   A) kidney cells
   B) muscle tissue
   C) brain cells
   D) bone cells.

30. Which one of the following is an indicator of atmospheric pollution?
   A) Yeast
   B) Ixora
   C) Lichens
   D) Fungi.
31. Vivipary is a phenomenon seen in
   A) Hydrophytes    B) Xerophytes
   C) Mesophytes     D) Halophytes.

32. Match and find the sequence of answers from the following codes:
   1. Creation of a new forest (P). Silviculture
   2. Removal of forests (Q). Afforestation
   3. Creating an already degraded forest (R). Deforestation
   4. Growing timber trees (S). Reforestation

   Codes:
   A) 1 - Q, 2 - R, 3 - S, 4 - P
   B) 1 - R, 2 - Q, 3 - P, 4 - S
   C) 1 - P, 2 - Q, 3 - R, 4 - S
   D) 1 - S, 2 - R, 3 - Q, 4 - P.

33. CAM cycle occurs in plants belonging to the family
   A) Poaceae    B) Cyperaceae
   C) Orchidaceae D) Crassulaceae.

   CAM குக்கனை இருந்து பாய்வு குருத்தியும் பாலோய்வு பெருந்துப்போக்கு.
   A) பெருந்து   B) பாலோய்வு
   C) பாலோய்வு   D) பாலோய்வுப்போக்கு.
34. Zeatin is
   A) Auxin
   B) Gibberellin
   C) Cytokinins
   D) Protein.

35. Cytochromes are a group of
   A) Coenzymes
   B) Lipoproteins
   C) Hemoproteins
   D) Glycoproteins.

36. GMP means
   A) Genetically Mutilated Plants
   B) Guanosine Monophosphate
   C) Gross Monophosphates
   D) Guanine Mannose Potassium.

37. Gene mutations are otherwise known as
   A) Deletions
   B) Point mutations
   C) Inversions
   D) Induced mutations.
38. Sucrose and Maltose are classified under

A) Disaccharides  B) Monosaccharides
C) Polysaccharides  D) Trisaccharides.

39. Padma, Ratna, Jamuna are important varieties of ............... developed in India.

A) Wheat  B) Oats
C) Sugarcane  D) Rice.

.......................... தமிழ்க் நாட்டில் பொழுதையான, ருஷ்டர், ஜமுனா என்று இருக்கும் வகைப்பாடு உண்டு கருதப்படவுள்ளது.

A) சீர்கெட்டு  B) கல்லணை
C) காய்ப்பாள்  D) அட்சி.

40. Vavilov, a Russian, is associated with

A) Rice research  B) Wheat research
C) Sugarcane research  D) Groundnut research.

.......................... தேசியப் பாதுகாப்பு மற்றும் இன்று உண்டு கருதப்படவுள்ளது.

A) அழினி பூண்டுநிறை  B) சீர்கெட்டு பூண்டுநிறை
C) காய்ப்பாள் பூண்டுநிறை  D) காய்மலர் பூண்டுநிறை.

41. A process in which a new variety establishes to a new environment is known as

A) Selection  B) Introduction
C) Acclimatisation  D) Mass selection.

.......................... புலித் தொடர்பு உறுதியாக புனித புளையுடன் காண்ட மெய்யான பூண்டுநிறை வெளியானது.

A) கருணை  B) அகிகரும்பிற்கும்
C) காய்மலர் அணு அல்பை நூழ்கட்டும்  D) காய்மலர்.
42. Groundnut has its origin from
   A) India                    B) Brazil
   C) Manila                   D) Thailand.

43. Plastid inheritance in plants is categorised under
   A) Polygenic inheritance    B) Extranuclear inheritance
   C) Mitochondrial inheritance D) Dominant epistasis.

44. Fluid Mosaic Model of plasma membrane was proposed by
   A) Robertson                B) Schleiden
   C) Singer and Nicolson      D) Danielli.

45. B-chromosomes are found in
   A) Oryza sp.                B) Triticum sp.
   C) Tradescantia sp.         D) Ixora sp.

46. Blending inheritance is otherwise termed as
   A) Law of Dominance         B) Law of Segregation
   C) Incomplete dominance     D) Recessive characters.
47. Spherical bodies of endoplasmic reticulum which synthesise and store lipids are called as
A) Sphaerosomes
B) Centrosomes
C) Ribosomes
D) Nucleosomes.

48. Polyten chromosomes were discovered by
A) Morgan
B) Muller
C) Fontana
D) Balbant.

49. Presence of phloem wedges in the xylem which are anomalous structures observed in
A) Boerhaavia
B) Bignonia
C) Dracaena
D) Mirabilis.

50. The outermost layer of endosperm that contains protein bodies is called
A) Albuminous cells
B) Amyloplast
C) Aleurone layer
D) Aliform layer.
51. Trichoblasts are found in
   A) the epidermal layer of roots   B) the epidermal layer of leaves
   C) the cortex of stem            D) the cortex of root.

52. A monocot leaf is otherwise called as
   A) Dorsiventral leaf             B) Isobilateral leaf
   C) Primordial leaf              D) Scale leaf.

53. Pulvinus is
   A) a kind of fruit               B) an enlargement of the petiole of a leaf
   C) a structure found in roots    D) a type of flower.

54. The term 'Rhytidome' means, the tissue
    A) consisting of cortical and phloem tissue of outer bark
    B) that is produced by vascular cambium
    C) tissue found next to endodermis
    D) consisting of xylem.
55. *Artabotrys odoratissima* belongs to the family

A) Asclepiadaceae  
B) Annonaceae  
C) Asteraceae  
D) Poaceae.

56. Obdiplostemonous stamen is a special feature of the family

A) Orchidaceae  
B) Asteraceae  
C) Sapotaceae  
D) Rutaceae.

57. 'Nomen nudum' is a name

A) published with a new name  
B) published with identical generic and specific name  
C) published without a description (or) reference  
D) published with a generic name.

A) பூச்சிய வகையில் வெளிப்படுத்தப்பட்டது  
B) கூட்டாக வெளிப்படுத்தப்பட்டது வகையில் வெளிப்படுத்தப்பட்டது  
C) வெளிப்படுத்தப்பட்டது, குறிப்பிட்டுள்ளது வகையில் வெளிப்படுத்தப்பட்டது  
D) குறிப்பிட்டுள்ளது வகையில் வெளிப்படுத்தப்பட்டது.
58. The term 'Polygamous' refers to

A) unisexual flowers found in different plants  
B) unisexual flowers found in the same plant  
C) unisexual & bisexual flowers found in the same plant  
D) unisexual & bisexual flowers found in different plants.

59. A type of fossil which shows a well preserved condition is called

A) compression  
B) impression  
C) cast  
D) petrifaction.

60. The term 'Taxonomy' was first introduced to the Plant Science in 1813 by

A) A. P. De Candolle  
B) Adolf Meyer  
C) Linnaeus  
D) Cronquist.

1813 என்ற காலத்தில் வேளவழங்கப்பட்ட வகுப்பு வகுப்பில் வேளாண்டு வகுப்பு அறிவு அளிக்கும் தொகுப்பு

A) லிந்தேசு  
B) ஆட்மோர் மேயர்  
C) லீன் தேசு  
D) க்ரோன்கிஸ்ட்.
61. Valecular and carinal canals are observed in
A) Adiantum  B) Lycopodium
C) Selaginella  D) Equisetum.

62. Leafy portion of which pteridophyte is edible and is called as 'Aaraakeeral'?
A) Adiantum  B) Marsilea
C) Lycopodium  D) Selaginella.

63. Mucilage cavities of Anthoceros show the algae called
A) Red Algae  B) Brown Algae
C) Green Algae  D) Blue green Algae.

64. A bryophyte which is commonly known as 'Horn Wort' is
A) Riccia  B) Marchantia
C) Anthoceros  D) Polytrichum.

65. Tikka disease of groundnut is caused by
A) Pythium  B) Aspergillus
C) Puccinia  D) Cercospora.
66. Citrus canker is a / an
   A) bacterial disease  B) viral disease
   C) mycoplasma disease  D) algal disease.

67. The phenomenon where bacteria exhibit different structural forms is
   A) Involution form  B) Pleomorphism
   C) Resolution form  D) Hypertrophy.

68. Type of virus which integrates its DNA with host cell DNA and replicates is called
   A) Lysogenic  B) Lytic
   C) Autolytic  D) Necrotic.

69. The lichen that is used in food preparations as spice and condiment is
   A) Parmelia  B) Usnea
   C) Lecanora  D) Roccella.

A) Parmelia  B) Usnea
   C) Lecanora  D) Roccella.
70. The period taken by the virus for developing infectivity within the vector is called

A) Resting period  
B) Developing period

C) Incubation period  
D) Virulent period.

71. When young, the pileus portion of Agaricus is completely enclosed inside a thin membrane called

A) Ligule  
B) Velum

C) Annulus  
D) Peristome.

72. Pycnidia develop on the upper surface of .......... leaf.

A) Triticum  
B) Berry

C) Amaranthus  
D) Barberry.

73. The life cycle of Sargassum is

A) Diplontic  
B) Haploplontic

C) Haplo-diplontic  
D) Diplohaploplontic.

A)  
B)  
C)  
D)
74. Agar is obtained from
   A) Nostoc          B) Ulothrix
   C) Spirogyra       D) Gracilaria.

75. Cryophytes are algae growing on
   A) living plants   B) ice and snow
   C) soil            D) terrestrial algae.

76. A nitrogen fixing alga that is found inside the tissues of Anthoceros is
   A) Nostoc          B) Anabaena
   C) Oscillatoria    D) Lyngbya.

77. A person is hurt on kicking a stone due to
   A) reaction        B) mass
   C) velocity        D) momentum.

78. Which of the following harbours is not a natural harbour?
   A) Cochin          B) Chennai
   C) Mumbai          D) Paradwip.
79. Recently one Indian cricket player has become the Sixth Batsman to score 10,000 runs in Test Cricket. The name of the player is

A) Sachin Tendulkar  
B) Virender Sehwag
C) Sourav Ganguly  
D) Rahul Dravid.

Who is the sixth player to score 10,000 runs in International Cricket?

A) Sachin Tendulkar  
B) Virender Sehwag
C) Sourav Ganguly  
D) Rahul Dravid.

80. The battle of Wandiwash was fought between

A) Marathas and Portuguese  
B) the English and the French
C) the English and Portuguese  
D) Marathas and the English.

Who were the participants of the Battle of Wandiwash?

A) Marathas and Portuguese  
B) the English and the French
C) the English and Portuguese  
D) Marathas and the English.

81. Linear programming is designed by

A) B. F. Skinner  
B) E. L. Thorndike
C) L. P. Pavlov  
D) Clark L. Hull.

Who designed linear programming?

A) B. F. Skinner  
B) E. L. Thorndike
C) L. P. Pavlov  
D) Clark L. Hull.

82. Which of the following first identified the Secondary Education as a weak link and suggested improvement?

A) The Tarachand Committee (1948)  
C) The University Education Commission (1949)  

Which committee identified secondary education as a weak link?

A) The Tarachand Committee (1948)  
C) The University Education Commission (1949)  
83. Intelligence test scores are reasonably stable after the age of
   A) one  B) two
   C) five  D) twenty.

84. Which one is not an S-R theory with reinforcement?
   A) E. L. Thorndike's theory
   B) Hull's theory
   C) B. F. Skinner's theory
   D) Tolman's theory of learning.

85. The emphasis of National Board for Adult Education on Curriculum is that it must be
   A) need-based  B) functional
   C) job-oriented  D) production-oriented.

86. World First Aid Day is
   A) September 11  B) September 12

87. For the following scores
   10, 11, 13, 10, 15, 17, 18, 15, 10
   the value of mode is
   A) 10  B) 13
   C) 15  D) 18.
88. Educational Technology means
A) Technology in Education  B) Technology of Education
C) both of these  D) none of these.

89. Which one of the following is not a cause for forgetting?
A) When something learned and not used repeatedly
B) Interference with present learning
C) Lack of reorganisation of the learning material
D) Learning on the basis of short-term remembrance.

90. When the reason for acting is in the action, motivation is said to be
A) extrinsic  B) intrinsic
C) extrinsic & intrinsic  D) none of these.

91. National Integration Day is
A) November 19  B) December 19
C) September 19  D) May 19.

A | Turn over
92. The importance of Teacher Education was first emphasized by
A) the Woods Dispatch  
B) the Hunter Commission  
C) Calcutta University Commission  
D) the White Paper.

93. Taxonomy of educational objectives was first developed by
A) Mager  
B) Skinner  
C) Bloom  
D) Thorndike.

94. SSA is established for achievement of
A) Elementary Education  
B) Secondary Education  
C) Higher Education  
D) Vocational Education.

SSA என்பது என்று கூறப்பட்டுள்ளது?  
A) எளிதாகச் சொன்னு  
B) பிரதேச விளையாட்டு  
C) ராண்டு கவுண்டு  
D) பராமரிப்புச் சொன்னு.

95. Whose philosophy is characterised as “Naturalistic in its setting, Idealistic in its aim and Pragmatic in its method and Programme of work”?
A) Sri Aurobindo  
B) Gandhiji  
C) Rousseau  
D) Tagore.

தொன்மைகளில் திருப்புக் குறைக்காலம், குறைக்காலத்தில் ஊடுதுள்ள குறைக்காலக் கூறு  
பராமரிப்பு பராமரிப்பு பிரதேச விளையாட்டு குறைக்காலம்  
A) பிரதேச விளையாட்டு  
B) கார்பீ ஆர்வாக  
C) ராண்டு  
D) கார்பீ  

A
96. Multi-factor theory of Intelligence was developed by
A) Charles Spearman     B) E. L. Thorndike
C) L. L. Thurstone      D) Dr. J. P. Guilford.

97. Cadmium found in industrial wastes can be removed by
A) Aspergillus oryzae  B) Agaricus campestris
C) Penicillium notatum  D) Bacillus circulans.

98. Production of vermicompost involves the use of
A) Ascaris             B) Anabaena
C) Earthworms          D) Azolla.

99. A process of gradual exposure of plantlets to natural environmental condition is called
A) Hardening          B) Incubation
C) Resting            D) Dormancy.
100. A microbe grown in a limited medium in a closed culture system is called
A) Axenic culture  B) Batch culture
C) Fed batch culture  D) Continuous culture.

101. Periodic warming or increase in temperature of ocean water is due to a phenomenon called
A) La Nina  B) El Nino
C) Air current  D) Trade winds.

102. A vessel used for fermentation (or) other biological synthetic processes is called as
A) Centrifuge  B) Inoculation chamber
C) Bioreactor  D) Autoclave.

103. Social forestry is well accepted because
A) it protects only forests  B) protects both people and forests
C) protects only animals  D) it protects only people.

A) குழுக்கூட்டல் உட்பட பொருள்பாண்டி நிறுவனம் கட்டுமானம்
B) மக்களால், தொழில்முறை பாராட்டும் கட்டுமானம்
C) பிற்காலக் கூட்டும் பாராட்டும் கட்டுமானம்
D) மக்கள் உட்பட பாராட்டும் கட்டுமானம்.
104. Which form of forest fire is supposed to be dangerous and difficult to control?

A) Canopy fire  B) Surface fire
C) Bush fire  D) Bark fire.

105. Montane Wet Temperate Evergreen Forests are seen in

A) Orissa  B) Tamil Nadu
C) Bihar  D) Rajasthan.

106. Noise pollution is measured by which of the following units of measurement?

A) Millimetres  B) Nanometres
C) Decibel units  D) Micro units.

107. Wheat plants show photoperiods which come under the category called

A) Long day plants  B) Short day plants
C) Day neutral plants  D) Neutral plants.

A)  குழுக்க தொல்வெளி  தொல்வெளியுற்று அனைத்து ............... கலந்தின் மேம் கொன்றும்பட்டிருந்தது.
B) குழுக்க தொல்வெளியுற்று
C) தொல்வெளியுற்று
D) கலந்தின் மேம் கொன்றும்பட்டிருந்தது.
108. The site of oxidative phosphorylation is
A) Chloroplast  B) Mitochondria
C) Golgi body  D) Lysosome.

109. A membrane that allows solvent but does not allow solute particles to pass through is called
A) selectively permeable  B) semipermeable
C) impermeable  D) totally permeable.

110. The exudation of water and cell sap through cuts and wounds of plants is called
A) Bleeding  B) Guttation
C) Leaching  D) Transpiration.

111. The process of breaking a large fat molecule into smaller ones is known as
A) Rancidity  B) Halogenation
C) Emulsification  D) Hydrogenolysis.
112. Non-protein part of an enzyme is called
   A) Apoenzyme  B) Coenzyme
   C) Holoenzyme  D) Hydrolytic enzyme.

113. Theory of Biogenesis was proposed by
   A) Louis Pasteur  B) Epicurus
   C) Haeckel  D) Stanley Miller.

114. Lamarck, a French evolutionist belongs to
   A) Darwinian era  B) post-Darwinian era
   C) pre-Darwinian era  D) Mesozoic era.

115. Sugarcane, a cash crop is improved by which of the following techniques?
   A) Clonal selection  B) Mass selection
   C) Pure line selection  D) Seed selection.
116. Disease resistance can be made in commercial crops by subjecting them to
A) Test cross  B) Back cross  
C) Selection  D) Rectiprocal cross.

117. A method of selection where a single homozygous individual is used for developing a variety, is called
A) Mass selection  B) Natural selection  
C) Clonal selection  D) Pure line selection.

118. Polyplody can be artificially induced by using a chemical known as
A) NAA  B) Colchicine  
C) IAA  D) Acetylene.

119. Sex linked genes in Drosophila were discovered by
A) Wilson  B) Stevens  
C) Henking  D) Morgan.
120. The method of sex determination first observed in a bryophyte, *sphaerocarpus* is of type

A) XO - YO method  
B) XY - XX method  
C) XX - XO method  
D) XX- YY method.

121. At what stage of Meiosis Prophase I, homologous chromosomes pair with each other (Synopsis)?

A) Pachytene  
B) Leptotene  
C) Zygotene  
D) Diplotene.

122. When DNA threads remain intertwind as supercoil which cannot be easily separated, that coiling is called

A) Plectonemic coiling  
B) Paranemic coiling  
C) Right coiling  
D) Left coiling.

123. Seed coat is formed from

A) Integument  
B) Hilum  
C) Tapetum  
D) Embryo sac.

............... புதைவுபூச்சில்லாத குறுக்குத்.

A) இயற்கையில்  
B) குறுக்குத்  
C) புதை  
D) குறுக்குத்.

A  [ Turn over ]
124. Surface of the thylakoid has spheroid bodies or particles of 20 x 10 Å size called
A) Autosomes  B) Quantasomes
C) F<sub>1</sub> particles  D) Lysosomes.

அதாவது புள்ளிப்புகள் போன்ற தாளநிலை வட்டமைப்பில் ஒலிஸ்த் மூலம், 20 x 10 Å அளவிலான
துளையானி ................. என்பதை விளக்குவது.
A) குளிர்நிறின்றக் B) கொட்டுமழு நிறின்றக்
C) F<sub>1</sub> நிறின்றக் D) கொய்ந்னு நிறின்றக்.

125. Identify the tissue type in the following illustration:

A) Parenchyma  B) Chlorenchyma
C) Aerenchyma  D) Collenchyma.

பூர்வத்தைக் பல்லகள் செந்நிலை

A) பார்ந்தகைய  B) கொள்ள்கரைகைய
C) எரைகைய  D) கோள்கரைகைய.

126. Casparian strips are found in the cells of
A) Phloem parenchyma  B) Xylem parenchyma
C) Endodermis  D) Pericycle.

சவபீகர் பால் ................. ஒருவகில் காசப்பர்கையந்தூறு.
A) பெளியானம் பார்ந்தகைய  B) காரம் பார்ந்தகைய
C) என்பெடுவலின்  D) போர்ளைகைய.
127. Sap wood refers to

A) wood of commercial importance
B) the inner part of the root
C) the inner part of wood containing dead tissue
D) the outer part of the wood containing living cells.

128. Tyloses are formed in

A) Phloem
B) Collenchyma
C) Epidermis
D) Secondary xylem.

129. Family cucurbitaceae is placed under ............... by Bentham and Hooker.

A) Heteromerae
B) Polypetalae
C) Gamopetalae
D) Monocots.

[ Turn over ]
130. The raw material for the production of chewing gum is obtained from

A) Malvaceae  B) Annonaceae
C) Sapotaceae  D) Asclepiadaceae.

குறிப்பிட்டு சுமார்ப்பாறு இழுக்கும் பார்வைக்கு வளர்ப்பு பாகத்திற்கு .......... திண்மத்து விளைப்படுத்தப்படும்.

A) மால்வேயோடி  B) அனொனேயோடி
C) சபோதேயோடி  D) ஆச்சபிேயோடி.

131. Tautonym is a

A) name of a species in which the specific epithet exactly repeats the generic name
B) name first described by the author
C) name not published properly
D) name of the family.

நினைவு கோட்டை விளைப்படுத்த உற்சென அடுத்து.

A) ஊரியல் ஆபதுகல் பிறப்பிலுமாக விளையும் நெறியில் அல்லாதை பிறந்த
B) சோண்டு வசதிகள் பிறப்பிலுமாக விளையும் பிறந்த
C) கோட்டை ஆபதுகல் என்று வசதிகள் பிறப்பிலுமாக பிறந்த
D) கோட்டை வசதிகள் பிறந்த.

132. Cauliflory refers to

A) flowers borne on the main stem
B) flowers borne on the tip of the stem
C) flowers borne at the axil of leaves
D) flowers borne on a lengthy peduncle.
133. Under whose classification, 6 subclasses of magnoliopsida and 5 subclasses of Liliopsida are present?

A) Hutchinson  
B) Cronquist  
C) Bessey  
D) Takhtajan.

134. Hemiparasite is an organism

A) which depends totally on other plants for nourishment  
B) which depends on other plants for a place to grow  
C) which depends on dead tissue for its growth  
D) which depends partially on other plants for food and partially self supporting.

A) வேட்டிடல்  என்பது  உயிரினம்  உடையதாலும்  உயிரினத்தம்  உருவகிக்காத  
B) உயிரினக்குரியம்  என்பது  உயிரினக்குரியதாலும்  உருவகிக்காத  
C) ஓய்வு உருவக்குரியம்  என்பது  உயிரினத்தாலும்  உருவகிக்காத  
D) உயிரினக்குரியம்  என்பது  உயிரினத்தாலும்,  உயிரினத்தாலும்  உயிரினத்தாலும்  உருவகிக்காத  

A] Turn over
135. Winged pollens are a special feature of
   A) Cycas   B) Gnetum
   C) Pinus   D) Ginkgo.

136. Presence of angiospermic characters is observed in
   A) Gnetum   B) Cycas
   C) Pinus   D) Adiantum.

137. Hydroids and Leptoids are observed in
   A) Anthoceros   B) Polytrichum
   C) Riccia   D) Marchantia.

138. Heterospory is observed in
   A) Selaginella   B) Lycopodium
   C) Equisetum   D) Marsilea.

A
139. *Riccia* sporophyte has

A) Foot, Seta and Capsule  
B) Capsule only  
C) Lengthy setae  
D) Calyptra.

140. Male sex organs are found in *Marchantia* on a structure called

A) Antheridiophore  
B) Archegoniophore  
C) Elatophore  
D) Rhizophore.

141. Circular, double stranded, extrachromosomal DNA molecules found inside a bacterium are called

A) Plastids  
B) Capsomeres  
C) Plasmids  
D) Chromatids.

142. Scientist who crystallised TMV for the first time is

A) Smith  
B) Stanley  
C) Miller  
D) Ivanowski.
143. TMV contains ........... as genetic material.

A) single stranded DNA  
B) t-RNA  
C) double stranded DNA  
D) RNA.

144. T-series bacteriophages are

A) Mycoviruses  
B) Algal viruses  
C) Virulent viruses  
D) Human viruses.

145. In *Colletotrichum*, the conidia and conidiophores are found inside a structure called

A) Acervulus  
B) Aecium  
C) Basidium  
D) Teliun.

146. External or internal gall like outgrowths which are found in the thallus of Lichens are called

A) Cyphellae  
B) Cephalodia  
C) Breathing pores  
D) Acervulus.
147. The fungus which is coprophilous is
A) Entomophthora
B) Peziza
C) Saccharomyces
D) Agaricus.

148. Heterothallism is found in which of the following fungi?
A) Achlya
B) Peranospora
C) Mucor
D) Penicillium.

149. Cap cells are found in
A) Oscillatoria
B) Cladophora
C) Caulerpa
D) Oedogonium.

150. The advanced female sex organ found in Chara is called as
A) Globule
B) Oogonium
C) Nucule
D) Ovum.
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