

BOTANY :: 2000

1. In which of the following the sepals, petals, stamens and carpels are in the ratio of 2 : 2 : 3 : 1
(1) Brassicaceae (2) Asteraceae (3) Solanaceae (4) Liliaceae
2. The female gametophyte in angiosperms is called
(1) Prothallus (2) Embryo sac (3) Fruiting Body (4) Ovule
3. Hardwickia yields
(1) Stain (2) Alkaloids (3) Timber (4) Aromatic oil
4. Chicory is obtained from :
(1) Roots (2) Flowers (3) Fruits (4) Seeds
5. The variety 'VaraLakshmi' belongs to this crop :
(1) Rice (2) Cotton (3) Ground nut (4) Coconut
6. In the life cycle of Rhizopus the unicellular structure with diploid nuclei is :
(1) Sporangiospore (2) Sporangium (3) Zygosporangium (4) Gametangium
7. The number of neck canal cells in the archegonium of selaginella is
(1) Six (2) Four (3) Two (4) One
8. The unique anatomical character of cycas leaflet is in the presence of :
(1) Girdle leaf traces (2) Transfusion tissue
(3) Algal layer (4) Trabeculae
9. Which of the following virus has spherical shape?
(1) Polio virus (2) Tobacco mosaic virus
(3) Bacteriophage (4) Vaccinia virus
10. Bacillus mycoides is
(1) Saprophyte (2) Autotroph (3) Parasite (4) Symbiont
11. Root pockets can be seen in :
(1) Nelumbo (2) Nymphaea (3) Hydrilla (4) Pistia
12. Muhlenbeckia belongs to this category
(1) Xerophytes (2) Epiphytes (3) Mesophytes (4) Hydrophytes
13. One of the following is an amphibious plant:
(1) Nelumbo (2) Azolla (3) Typha (4) Hydrilla
14. Emasculation means:
(1) Removal of Sepals (2) Removal of Petals
(3) Removal of Stamens (4) Removal of Carpels
15. The maize varieties 'Dixie' and '11.22' were introduced into India from this country :
(1) Australia (2) China (3) Taiwan (4) America
16. Which fungus causes black coal-like spots of Anthracnose in Plants?
(1) Gleosporium (2) Tolyposporium (3) Ustilago (4) Alternaria
17. Species belonging to this genus cause downy mildew disease :
(1) Uromyces (2) Fusarium (3) Ustilago (4) Peronospora
18. Vascular wilts are caused by this pathogen :
(1) Pyricularia (2) Puccinia (3) Erwinia (4) Helminthosporium
19. The purple colour formed in the petioles and veins of tomato plants during nitrogen deficiency is due to
(1) Xanthophylls (2) Carotenes (3) Anthocyanins (4) Leghaemoglobin

20. When fats are the respiratory substrates RQ is :
 (1) Zero (2) One (3) Less than one (4) More than one
21. Oxidative Phosphorilation occurs in:
 (1) Chloroplast (2) Mitochondria (3) Peroxisome (4) Ribosome
22. Synchronous flowering in pineapple can be achieved by the application of
 (1) Kinetin (2) 2-40 (3) Absciscic acid (4) NAA
23. Which of the following type of Phytohormones resemble nucleic acids in some structural aspects :
 (1) Cytokinins (2) Auxins (3) Gibberellins (4) Absciscic acid
24. The terminal acceptor of electrons in non-cyclic photophosphorilation is :
 (1) Plastoquinone (2) Plastocyanin (3) NAO Phosphate (4) Ferredoxin
25. Wareing and his co-workers were associated with the discovery of :
 (1) Absciscic acid . (2) Auxins . (3) Cytokinins (4) Gibberellins
26. The scientist associated with the discovery of photosystems :
 (1) Calvin (2) Hill (3) Emerson (4) Ruben
27. The ring like portion on the 'stipe of' Agaricus basidiocarp is the remnant of:
 (1) Velum (2) Hymenium (3) Paraphyses (4) Gill
28. The 4-carbon compound formed during RuBP regeneration reactions of Calvin Cycle is :
 (1) Sedoheptulose phosphate (2) Xylulose phosphate
 (3) Erythrose phosphate (4) Glyceraldehyde phosphate
29. Embryo culture in angiosperms was first tried by :
 (1) Hanning (2) Guha and Maheshwari
 (3) Nitsch (4) White
30. One of the following is involved in denitrification reactions :
 (1) Nitrosomonas (2) Nitrobacter (3) Thiobacillus (4) Rhodospirillum
31. The book 'Historia Plantarum' was written by
 (1) Bauhin (2) Theophrastus (3) Malpighi (4) Bentham
32. Chlorophyll containing roots are found in
 (1) Avicennia (2) Vanda (3) Taeniophyllum (4) .Loranthus
33. Dahlia has:
 (1) Tendrillar roots (2) Respiratory roots (3) Nodular roots (4) Storage roots
34. The stem modification in Hydrocotyl vulgaris is a :
 (1) Stolon (2) Sucker (3) Offset (4) Runner
35. Unifacial leaves .are found in
 (1) Cestrum (2) Ailium (3) Hibiscus (4) Eucalyptus
36. Thorns which help in climbing are found in
 (1) Carissa (2) Ulex (3) Bougainvillea (4) Lawsonia
37. Amentum is found in :
 (1) Achyranthus (2) Betula (3) Oolichos (4) Oryza
38. In Benincasa the condition of androecium is described as :
 (1) Oiadelpous (2) Polyadelphous (3) Synandrous (4) Syngenesious
39. Malacophily is observed in the species of one of the following :
 (1) Zostera (2) Lemna (3) Ruppia (4) Bignonia

40. A true fruit along with false fruit is found in
 (1) Magnifera (2) Terminalia (3) Anacardium (4) Cocos
41. The remnant of nucellus in seed is
 (1) Endosperm (2) Aril (3) Cotyledons (4) Perisperm
42. The nucleolus is concerned with the synthesis of :
 (1) Carbohydrates (2) Proteins (3) Fats (4) Resins
43. The organelles, which play an important role in the formation of the cell palte are :
 (1) Microtubules (2) Endoplasmic reticulum
 (3) Ribisomes (4) Golgi complexes
44. In one of the following. plants, the chromosomes -were first observed :
 (1) Tradescantia (2) Allium (3) Colchicum (4) Vallisneria
45. Pairing of homologous chromosomes takes place during
 (1) Leptotene (2) Zygotene (3) Pachytene (4) Diplotene
46. The extension of pith between the vascular bundles, as seen in the transverse section of a young dicot stem is called :
 (1) Phloem (2) Medullary ray (3) Cambium (4) Xylem
47. The ground tissue is undifferentiated in:
 (1) Dicot stem (2) Dicot root (3) Monocot stem (4) Monocot root
48. Periblem is a part of :
 (1) Cortex (2) Stele (3) Apical meristem (4) Vascular bundle
49. Reticulate and scalariform thickenings are found in one of the "following :
 (1) Sieve tubes (2) Metaxylem vessels
 (3) Protoxylem vessels (4) Companion cells
50. The sderenchymatous part of the pericyde which gives mechanical support is called :"
 (1) Hard bast (2) Best Fibres (3) Sclereids (4) Wood fibres

ANSWER

- | | | | | |
|--------|--------|--------|--------|--------|
| (1) 1 | (2) 2 | (3) 3 | (4) 1 | (5) 2 |
| (6) 3 | (7) 4 | (8) 2 | (9) 1 | (10) 1 |
| (11) 4 | (12) 1 | (13) 3 | (14) 3 | (15) 4 |
| (16) 1 | (17) 4 | (18) 3 | (19) 3 | (20) 3 |
| (21) 2 | (22) 4 | (23) 3 | (24) 3 | (25) 1 |
| (26) 3 | (27) 1 | (28) 3 | (29) 1 | (30) 3 |
| (31) 2 | (32) 3 | (33) 4 | (34) 4 | (35) 4 |
| (36) 3 | (37) 2 | (38) 3 | (39) 2 | (40) 3 |
| (41) 4 | (42) 2 | (43) 4 | (44) 1 | (45) 2 |
| (46) 2 | (47) 3 | (48) 3 | (49) 2 | (50) 1 |