The Bodwad Sarvajanik Co- Op. Education Society Ltd., Bodwad

Arts, Commerce and Science College, Bodwad.

Question Bank

Class:- F.Y. B.Sc. Sem:-II

Subject:- Botany Paper:- Diversity of Archegoniate

- 1. A characteristic feature of bryophytes is
- (a) a dominant and parasitic sporophyte
- (b) a dominant and spore-producing gametophyte
- (c) a small sporophyte phase, which is dependent on the gametophyte
- (d) sporophytes stay for a longer duration
- 2. Gametophytic generation is dominant in
- a) Pteridophytes

b) Bryophytes

- c) Angiosperms
- d) Gymnosperms
- 3. The scales in Riccia are
- a) multicelled and appendiculate

b) multicelled and ligulate

- c) unicelied and appendiculate
- d) unicelied and ligulate
- 4. The air cavities in the capsule of moss are partitioned with delicate strands of cells. These are called
- a) septa

b) trabeculae

c) partitions
d) compartments
5. The unique feature of bryophytes is that
a) they produce spores
b) they lack vascular tissues
c) they lack roots
d) they have sporophyte attached to the gametophyte
6. From protonema, leafy gametophyte is formed in
(a) Funaria
(b) Riccia
(c) Marchantia
(d) Anthoceros
7. A common hornwort is
(A) Anthoceros
(B) Funaria
(C) Marchantia
(D) Riccia
8. Bryophytes are amphibians of the plat kingdom because
(A) They require a layer of water for carrying out sexual reproduction
(B) They occur in damp places
(C) They are mostly aquatic
(D) All the above
9. A fern differs from a moss in possessing
(A) Swimming / flagellate Antherozoids
(B) Flask – shaped archegonia

(C) Independent sporophyte
(D) Independent gametophyte
10. Heterospory and ligulate leaves occur in
(A) Selaginella
(B) Ferns
(C) Mosses
(D) Liverworts
11. Number of integuments present in the ovule of Pinus / Cycas is
(A) Two
(B) Three
(C) One
(D) Four
12. Gymnosperms do not have
(A) Xylem vessels and sieve tubes
(B) Trachieds and sieve tubes
(C) Sieve tubes and companion cells
(D) Trachieds and companion cells
13. Spermatozoid of Cycas is
(A) Biflagellate
(B) Nonflagellate
(C) Uniflagellate
(D) Multiciliate
14. The common term for class Musci is
a) Mosses
b) Sossess

c) Horn worts
d) Thorn worts
15. In Bryophytes essential factor for competition of life is
a) Water
b) Soil
c) Light
d) Fertilizers
16. The protonema in Funaria is composed of
a) Leaves and buds
b) Rhizoids and Stolons
c) Rhizoidal and Aerial branches
d) Seta and Capsule
17. Male sex gamete of Riccia is called
a) Spermatia
b) Conidia
c) Sporotia
d) Anthrozoid
18. Spores of Funaria germinate to produce.
a) Buds
b) Calyx
c) Protonema
d) None
19. Anthridia bearing branch in Funaria is
a) Antheridiochore
b) Antheridiophore

c) Antheridiome
d) None of these
20. Funaria peristome consist of following number of sets of peristome teeth
a) Two
b) Three
c) Four
d) Eight
21. Capsule of Funaria consist of
a) Foot, seta and operculum
b) Foot seta and teeth
c) Apophysis, theca and operculum
d) Foot seta and elaters
22. The presence of two types of leaves on plants is called
a) Homophily
b) Isophily
c) Heterophily
d) None of these.
23. Production of two types of spore is referred as –
a) Homospory
b) Heterospory
c) Isospory
d) Anisospory
24. Leaves of Adiantum are –
a) Microphyllous
b) Simple

c) Compound
d) Pinnately compound
25. Antherozoid od Adiantum is
a) Biflagellate
b) Triflagellate
c) Tetraflagellate
d) Multiflagellate
26. Phloem is without in pteridophytes
(a) Bast fibres
(b) Companion cells
(c) Phloem parenchyma
(d) sieve cells
27. Gametophytic phase of Funaria consist of two stages viz
a) Protenema and leafy gametophyte
b) Megaspore and Meiospore
c) Apospory and Hydrospory
d) None of these
28. Funaria produce two types of sex organs for sexual reproduction are
a) Meiospore and Mitospore
b) Apospore and Gametes
c) Antheridia and Archegonia
d) Spermatia and Trichogyne
29. Sporophyte of Funaria consist of
a) Apophysis, theca and operculum
b) Foot, seta and elaters

c) Foot, seta and capsule
d) Body, stalk and teeth
30. Pteridophytes are called
a) Non-vascular cryptogams
b) Cellular cryptogams
c) Vascular cryptogams
d) Non-cellular cryptogams
31. Plants belonging to division psilophta
a) Heterosporous
b) Homosporus
c) Without sporous
d) Isosporus
32. Spore producing organ in Adiantum is –
a) Strobilus
b) Cone
c) Sori
d) Rhizome
33. One of the living genus of pteridophyte is –
a) Elapteris
b) Adiantum
c) Calamostachys
d) Selaginella.
34. This serves as a connecting link between the angiosperms and gymnosperms
(a) Gnetales
(b) Coniferales

(c) Ginkgoales
(d) Cycadales
35. In gymnosperms, the ovules typically are
(a) bitegmic and anatropous
(b) bitegmic and orthotropous
(c) unitegmic and orthotropous
(d) unitegmic and anatropous
36. Tallest known gymnosperm is
(a) Pinus
(b) Ginkgo
(c) Sequoia
(d) Ephedra
37. In Cycas, the fern characteristic is
(a) reticulate venation
(b) circinate venation
(c) taproot system
(d) coralloid roots
38. In Cycas, the spermatozoid is
(a) Multiciliated
(b) uniflagellate
(c) non flagellate
(d) biflagellate
39. In Cycas, the endosperm is a
(a) post fertilization product and diploid
(b) post fertilization product and haploid

(c) pre fertilization product and diploid
(d) pre fertilization product and haploid
40. This is considered to be a living fossil
(a) Podocarpus
(b) Zamia
(c) Cycas
(d) Pinus
41. The resin duct in Pinus stem represents a
a)large vacuole
b)intercellular space
c)lysigenous cavity
d)schizogenous cavity.
42. In Pinus, pollination takes place with the help of
A) water
B) wind
C) insects
D) animals
43. In Cycas, archegonium has following number of neck canal cells:
A)4
B) 3
C) 2
D) 0
44. Each stamen in Cycas is a representation of
A) microsporophyll
B) microsporangium

C) megasporophyll
D) megasporangium
45. Winged seeds are found in
A) Cycas species
B) Pinus species
C) Papaver species
D) None of these
46. Cycas is said to be a living fossil because
A) it is found only in China
B) it looks like a fern tree
C) it has ciliated sperms
D) it also occurs as a fossil
47. Monoxylic wood consists of
A) compact wood
B) soft-loose wood
C) compact wood with abundant parenchyma
D) soft-loose wood with abundant parenchyma
48. The wood of Cycas consists of
A) vessels only
B) tracheitis only
C) equal number of both
D) more of tracheids and less of vessels
49. Coralloid roots are found in:
A) D
A) Dryopteris
B) Grtetum

D) Cycas 50. The ovuliferous scales of pine cone are comparable to A) scales B) pistils C) stamens D) petals 51. Dwarf shoots of Pinus species have A) 1-4 leaves B) 2-5 leaves C) 2-4 leaves D) 1-5 leaves 52. The revoluta and circinalis are the species of A) Pirtus B) Selaginella C) Cycas D) Funaria 53. Which of the following statements is not true of Pinus? A) Presence of ovuliferous scale B) Embryo with two cotyledons C) Resin canals in needles D) Tracheids with bordered pits 54. Female cone is absent in A) Cycas B) Pinus	C)	Pinus
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B) Pinus	A)	Cycas
	B)	Pinus

C) Taxus
D) None of these
55. Dimorphic leaves are characteristic of
A) Ephedra
B) Cycas
C) Pinus
D) Selaginella
56. Fertilization in gymnosperms is
A) isogamous
B) double
C) oogamous
D) siphonogamous
57. 19. Pinus seed is
(a) Non endospermic and monocotyledonous
(b) Abaxial and rounded
(c) Adaxial and endospermic
(d) Hypogeal and non endospermic
58. 17. Maiden hair tree is
(a) Araucaria
(b) Thuja
(c) Ginkgo
(d) Pinus
59. The stele in fern is
A) eustele
B) siphostele

C) dictyostele
D) none of these
60. The number of megaspores in Selaginella rupestris is
A) one
B) two
C) three
D) four
61. The following is the most primitive vascular plant:
A) Ferns
B) Cycas
C) Sphagnum
D) Psilotum
62. In Pteris, the petiole has a groove and its stele is
A) Horse shoe shaped
B) W-shaped
C) M-shaped
D) Without any definite shape
63. Selaginella and fern share the following character:
A) Protostelic stele
B) Leptosporangiate sporangium
C) Heterospory
D) Adsence of ovules
64. eptosporangiate sporangium is
A) single-celled
B) multiceiled and formed from many cells

b) Cup shaped
c) Rounded
d) Star Shaped
70. G.M. Smith divided Bryophytes intoclasses
a) One
b) Two
c) Three
d) Four
71. Spore producing structure in Marsilea is
a) Strobilus
b) Cone
c) Sporocarp
d) None of these
72. Equisetum includes in division
a) Psilophyta
b) Filicinae
c) Calamophyta
d) Pterophyta
73. Rhizophore of Selaginella is always
a) Diastelic
b) Monostelic
c) Multistelic
d) None of these
74. Canada balsum is obtained from
a) Abies balsaema

b) Pinus
c) Cedrus
d) Taxus
75. Antheridia and archegonia are born on in bryophytes.
A) Sporophyte
B) Gametophyte
C) Both of these
D) None of these
76. Antherozoids, the male gamete in bryophytes, are attracted to Archegonium i.e., female sex organ by:
A) Geotropic phenomenon
B) Chemotropic movement
C) Phototactic phenomenon
D) Chemotactic phenomenon
77. Mosses are included in which sub-division?
A) Bryopsida
B) Lycopsida
C) Anthoceropsida
D) Hepaticopsida
78. Which of the following species propagates through leaf-tip?
A) Funaria
B) Walking fern
C) Moss
D) Marchantia
79. Which of the followings is haploid in Funaria?

A)	S	eta
1 h)	יטי	νιu

B) Protonema

- C) Columella
- D) Capsule
- 80. Which one helps in spore dispersal in moss?

A) Peristome teeth

- B) Operculum
- C) Columella
- D) None of these