SELAGINELLA

EXERCISE

1. How many prothallial cell/s/is/ are found in made gametophyte of **Selaginella :**
(1) 1 (2) 2 (3) 4 (4) 3

2. A evolutionary characteristic is found in **Selaginella**
(1) Presence of ligule
(2) Heterophilly habit
(3) Sporangia present in cone
(4) Heterospory

3. The number of megaspore/megaspores in each megasporangium of ***Selaginella rupestris*** is /are
(1) One (2) Two
(3) Three (4) Four

4. Which is the epiphytic species of **Selaginella :**
(1) **S.lepidophylla** (2) **S.oregana**
(3) **S.kraussiana** (4) **S.rupestris**

5. The 13-called male gametophyte of ***Selaginella*** has :
(1) 10 cells of the antheridium +3 prothallial cells
(2) 12 cells of the antheridium +1 prothallial cell
(3) 9 cell of the antheridium +4 prothallial cells
(4) 08 cells of the antheridium +5 prothallial cells

6. Which organ of the ***Selaginella*** is **"Organ suigeneris" :**
(1) Root (2) Stem
(3) Ligule (4) Rhizophore

7. Which type of stele is found in rhizophore of **Seleginella :**
(1) Monarch (2) Diarch
(3) Triarch (4) Polyarch

8. Rihizophore is not a true root because it is :
(1) Endogenous (2) Exogenous
(3) Intermediate (4) None of above

9. Glossopodium is found in **Selaginella :**
(1) root (2) rhizophore
(3) stem (4) leaves

10. How many cotyledons are present in embryo of **Selaginella :**
(1) Two cotyledons
(2) One cotyledon
(3) Many cotyledons
(4) Cotyledon absent

11. Which types of leaf is found in **Selaginella :**
(1) Aligulate and microphyllous
(2) Ligulate and megaphyllous
(3) Ligulate and microphyllous
(4) Aligulate and megaphyllous

12. Trabeculated endoermis found in :
(1) **Funaria** (2) **Selaginella**
(3) Monocots (4) Dicots

13. In which characters **Selaginella** is alike as Gynosperm :
(1) In heterospory (2) In vascular tissues
(3)Cone/Strobilus (4) All of the above

14. A filament of cells forming a temporary organ in some pteridophytes and most spermatophytes, that forces the growing embryo deep in the tissue of the female gametophyte, called as :
(1) Strobilus (2) Tapetum
(3) Suspensor (4) Trabeculae

15. Which structure is developed from microspore of the **Selaginella :**
(1) Male gametophyte
(2) Female gametophyte
(3) Male sporophyte
(4) Female sprophyte

16. In wchih plant, male and female sporongia are developed on same strobilus :
(1) Dropteris (2) Cycas
(3) Selaginella (4) Nephrolepis

17. Selaginella s :
(1) Oogamous and homosporous plant
(2) Oogamous and heterosporous plant
(3) Isogamous & heterosporous plant
(4) Isogamous & homosporous plant

18. In which stage of the male gametophyte of ***Selaginella,*** pollination take place :
(1) 3-celled stage (2) 5-celled stage
(3) 13-celled stage (4) 2-celled stage

19. Selaginella belongs to which class :
(1) Psilopsida (2) Coniferopsida
(3) Lycopsida (4) Pteropsida

20. How many prothallial (P) and antheridial cells (A) are found in the male gametophyte of **selaginella**
(1) $P_4 A_9$ (2) $P_2 A_{11}$
(3) $P_1 A_{12}$ (4) $P_8 A_5$

21. Is ***selaginella*** reduction division occurs :
(1) During formation of microspores
(2) During formation of both microspores and megaspores
(3) During formation of sperms
(4) Immeditelyafter fertilization

22. ***Selaginella*** differs from **Pteris** in which of the following character :
(1) Heterosporous condition
(2) Absence of seed
(3) Absence of vessels in xylem
(4) Need of water for fertilization

23. In which species of ***Selaginella*** vivipary is found -
(1) **S.rupestris** (2) **S.kraussiana**
(3) **S.Lepidophylla** (4) **S.oregana**

24. What is the main function of foot of embryo in **Selaginella :**
(1) Fusion (2) Water absorption
(3) Food absorption (4) None of above

25. Which species of the **Selaginella** are known as **"Resurrection plants"**
(1) Epiphytic species
(2) Aquatic species
(3) Mesophytic species
(4) Xerophytic species

26. In **Selaginella,** male gametes are **[MP PMT 2000]**
(1) Multi flagellate (2) Aflagellate
(3) Biflagellate (4) Mono flagelalte

27. In **Selaginella,** trabeculae, represent **[MP PMT 2000]**
(1) Heterophylly (2) Heterospory
(3) Homosprory (4) Ligulate leaf

29. Club mass is common name of **[RPMT 2001]**
(1) ***Lycopodium*** (2) ***Selaginella***
(3) ***Funaria*** (4) ***Potamogeton***

30. Which one of the following is heterosporous ? **[AIPMT 2008]**
(1) ***Salvinia*** (2) ***Adiantum***
(3) ***Equisetum*** (4) ***Dryopteris***

Note: In Ephedra (Gymnosperm plant), pollination takes place at 5 – celled stage.

SELAGINELLA **EXERCISE**

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	**1**	**4**	**1**	**2**	**2**	**4**	**1**	**2**	**4**	**1**	**3**	**2**	**4**	**3**	**1**
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	**3**	**2**	**3**	**3**	**3**	**2**	**1**	**1**	**3**	**4**	**3**	**1**	**3**	**1**	**1**