SPIROGYRA EXERCISE

1. Replicate septum occurs in -
(1) ***Ulothrix*** (2) ***Spirogyra***
(3) ***Chlamydomonas*** (4) All the above

2. On germination each zygospore of ***Spirogyra*** gives rise to -
(1) Four plants (2) Three plants
(3) Two plants (4) One plant

3. Filament of ***Spirogyra*** is -
(1) Branched and filamentous
(2) Unbranched and filamentous
(3) Highly branched
(4) All the above

4. ***Spriogyra*** also known as -
(1) Thred of wool (2) Water silk
(3) Pond silk (4) 2 and 3 both

5. Gametes of ***Spirogyra*** are
(1) Biflagellated (2) Mltiflagellated
(3) Quadriflagellated (4) Nonflagellated

6. ***Spirogyra*** found in
(1) Stagnant fresh water
(2) Running salt water
(3) Stagnant salt water
(4) Running fresh water

7. Food is stored n ***Spirogyra*** in -
(1) Chloroplast (2) Pyrenoid
(3) Vacuole (4) Cytoplasm

8. Scalariform conjugation occurs in -
(1) ***Ulothrix*** (2) ***Oedogonium***
(3) ***Spirogyra*** (4) ***Chlamydomonas***

9. Which of the following produce non motile gametes
(1) ***Ulothrix*** (2) ***Spirogyra***
(3) ***Anabaena*** (4) ***Cladophora***

10. The sexual reproduction in Spirogyra is
(1) Oogamous
(2) Physiological Anisogamous
(3) Cleistogamous (4) None

11. The zygospore of ***Spirogyra*** produces
(1) 2-zoospores (2) 4-zoopsores
(3) 2-4 zoospores (4) None of these

12. The product of conjugation of ***Spirogyra*** is called
(1) Zoospores (2) Akinete
(3) Chlamydospore (4) Zygospore

13. Flagellated stages are absent in -
(1) ***Ulothrix*** (2) ***Albugo***
(3) ***Spirogyra*** (4) ***Chlamydomnas***

14. Which is the common and advanced type of conjugation is ***Spirogyra***
(1) Direct lateral conjugation
(2) Indirect lateral conjugation
(3) Scalariform conjugation
(4) None of these

15. No growth of ***Spirogyra*** can occur in -
(1) River (2) Ponds
(3) Streams (4) Sea

16. In **Spirogyra,** Meiosis occurs -
(1) During conjugation
(2) During vegetative reproduction
(3) During formation of gametes
(4) As the zygospores germinates

17. ***Spirogyra*** belongs to
(1) volvocales (2) Conjugales
(3) Ulothrichales (4) Siphonales

18. Which is not true for ***Spirogyra***
(1) Spiral chloroplast
(2) Presence of pyrenoids
(3) Flagellated zoospores
(4) Presence of chlorophyll ‘a’ and ‘b’

19. Ribbon shaped chloroplast is found in -
(1) ***Spirogyra*** (2) ***Ulotrhix***
(3) ***Chlamydomonas*** (4) Nostoc

20. How many chloroplast occur in a single cell of Spirogyra
(1) One to four (2) One to eight
(3) Four to eight (4) One to sixteen

21. The outer cell-wall of ***Spirogyra*** is made up of
(1) Cellulose (2) Pectin/Pectose
(3) Hemicellulose (4) Protein

22. Cell wall of ***Spirogyra*** is

(1) One layered (2) Two layered

(3) Three layered (4) Four layered

23. ***Spirogyra*** is more advanced than ***Ulothrix*** because it has -

(1) Internal fertilization

(2) Multicellular thallus

(3) Absence of hold fast

(4) Heterothallic thallus

24. ***Spirogyra*** appear ladder like during -

(1) Lateral conjugation

(2) Direct lateral conjugation

(3) Scalariform conjugation

(4) Semidrying condition

25. In which of the following plant archegonium is absent -

(1) **Spirogyra** (2) **Funaria**

(3) **Pteris** (4) **Cycas**

26. At the time of germination of zygospore in ***Spirogyra -***

(1) All haploid nuclei are functional

(2) Only one haploid nucleus is functional

(3) Diploid nucleus does not divide

(4) Diploid nucleus divides mitotically

27. Pyrenoid is found in one of the following organs of ***Spriogyra***

(1) Nucleus (2) Chloroplast

(3) Cytoplasm (4) Cell wall

28. Sexual reproduction in ***Spirogyra*** is an advanced feature because it shows :

(1) Different sizes of motile sex organs

(2) same size of motile sex organs

(3) Morphologically different sex organs

(4) Physiologically differentiated sex organs

29. The sexual reproduction in which cells of two different spirogyra filaments conjugate is known as -

(1) Lateral conjugation

(2) Scalariform conjugation

(3) Parthenospory

(4) Azygospory

30. ***Spirogyra*** has a **[MP PMT 1999]**

(1) Haplontic life cycle

(2) Hapolidiplontic life cycle

(3) Diplontic life cycle

(4) Diplohaplonitc life cycle

Note :

According to Hodgetts terminal conjugation is found n **Spirogyra colligata.** In this species, conjugation tubes are formed near common cell wall. It is also a type of lateral conjugation.

SPIROGYRA EXERCISE

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