



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

WORK SHEET – 5 (solutions)

Class: XII

Sub: Biological science

Date: 15.05.2020

Chapter :Sexual reproduction in flowering plants - part 1

Topic: Male reproductive structure F.M. : 15

Choose the correct option:

(1x15=15)

1. The following is not a part of structure of stamen :-

- a) Anther b) Filament c) Connective d) Style

Answer : Style (d)

2. A typical angiospermic anther is bilobed and is therefore called :-

- a) Monotheous b) Ditheous c) Triteous d) None of these

Answer : Ditheous (b)

3. The total number of microsporangia in a ditheous anther are:-

- a) one b) Two c) Four d) Three

Answer : Four (c)

4. The nutritive layer of the anther sac wall is called :-

- a) Epidermis b) Tapetum c) Endothecium d) Middle layer

Answer : Tapetum (b)

5. The process of formation of microspores from the sporogenous tissue is called:-

- a) Microsporogenesis b) Megasporogenesis c) Gametogenesis d) None of these

Answer : Microsporogenesis (a)

6. The spore mother cell undergoes _____ division to form pollen grains.

- a) Mitotic b) Reductional c) Cleavage d) None of these

Answer : Reductional (b)

7. The chemical component of exine is :-

- a) Cellulose b) Peptidoglycan c) Sporopollenin d) Chitin

Answer : Sporopollenin (c)

8. Pollen grains are preserved in fossils because they contain :-

- a) Sporopollenin b) Cellulose c) Lignin d) All of these

Answer : Sporopollenin (a)

9. Pollen grain consists of few gaps from where the germ tube develops. These are called:-

- a) Pits b) Germ pits c) Germ pores d) None of these

Answer : Germ pores (c)

10. The pollen grain in angiosperms usually undergoes pollination at _____ stage

- a) Three celled b) Two celled stage c) Uni-celled stage d) None of these

Answer : Two celled stage (b)

11. The microspore nucleus divides mitotically to produce :-

- a) Vegetative cell b) Generative cell c) Vegetative and generative cell both d) none of these

Answer : Vegetative and generative cell both (c)

12. In a young anther a group of compactly arranged homogeneous cells which divide continuously is called :-

- a) Sporogenous tissue b) Vegetative tissue c) Spore mother cell d) None of these

Answer : Sporogenous tissue (a)

13. The layers of anther sac wall are :-

- a) Endothecium b) Middle layer c) Tapetum d) All of these

Answer : All of these(d)

14. Pollen grains are stored at - 196°C in _____.

- a) Germ banks b) Seed banks c) Pollen banks d) All of these

Answer : Pollen banks (c)

15. Generative cell divides to form _____ male gametes.

- a) two b) Three c) Four d) One

Answer : Two (a)

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