



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

WORK SHEET – 5

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
2. A typical angiospermic anther is bilobed and is therefore called :-
a) Monothealous b) Dithealous c) Trithealous d) None of these
3. The total number of microsporangia in a dithealous anther are:-
a) one b) Two c) Four d) Three
4. The nutritive layer of the anther sac wall is called :-
a) Epidermis b) Tapetum c) Endothecium d) Middle layer
5. The process of formation of microspores from the sporogenous tissue is called:-
a) Microsporogenesis b) Megasporogenesis c) Gametogenesis d) None of these
6. The spore mother cell undergoes _____ division to form pollen grains.
a) Mitotic b) Reductional c) Cleavage d) None of these
7. The chemical component of exine is :-
a) Cellulose b) Peptidoglycan c) Sporopollenin d) Chitin
8. Pollen grains are preserved in fossils because they contain :-
a) Sporopollenin b) Cellulose c) Lignin d) All of these
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
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
11. The microspore nucleus divides mitotically to produce :-
a) Vegetative cell b) Generative cell c) Vegetative and generative cell both d) none of these
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
13. The layers of anther sac wall are :-
a) Endothecium b) Middle layer c) Tapetum d) All of these

14. Pollen grains are stored at -196°C in _____.
- a) Germ banks b) Seed banks c) Pollen banks d) All of these
15. Generative cell divides to form _____ male gametes.
- a) two b) Three c) Four d) One

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