



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

WORK SHEET – 4 (solutions)

Class: XII

Sub: Biological science

Date: 05.07.2021



Ch 2 (part 1) Sexual reproduction in flowering plants

Topic: Male and female reproductive structure

F.M. : 15

Choose the correct option:

(1x15=15)

- The other name for ovule is :-
a) Ovary **b) Megasporium** c) Embryo sac d) Seed
- A typical angiospermic anther is bilobed and is therefore called :-
a) Monotheous **b) Dithecous** c) Triteicous d) None of these
- The total number of microsporangia in a dithecous anther are:-
a) one b) Two **c) Four** d) Three
- The nutritive layer of the anther sac wall is called :-
a) Epidermis **b) Tapetum** c) Endothecium d) Middle layer
- The process of formation of microspores from the sporogenous tissue is called:-
a) Microsporogenesis b) Megasporogenesis c) Gametogenesis d) None of these
- The spore mother cell undergoes _____ division to form pollen grains.
a) Mitotic **b) Reductional** c) Cleavage d) None of these
- The chemical component of exine is :-
a) Cellulose b) Peptidoglycan **c) Sporopollenin** d) Chitin
- The function of nucellus:-
a) Protection **b) Food reserve** c) Shock absorber d) All of these
- The process of formation of megaspores from megaspore mother cell :-
a) Megasporogenesis b) Microsporgogenesis c) Parthenogenesis d) All of these
- 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
- The microspore nucleus divides mitotically to produce :-
a) Vegetative cell b) Generative cell **c) Vegetative and generative cell both** d) none of these
- The functional megaspore undergoes _____ Mitotic divisions to form 8-nucleate embryo sac.
a) Two b) Four **c) Threed** d) No division
- The layers of anther sac wall are :-
a) Endothecium b) Middle layer c) Tapetum **d) All of these**
- The cells found at the chalazal end are called :-

- a) **Antipodal cells** b) Synergids c) Egg apparatus d) Polar nuclei
15. Generative cell divides to form _____ male gametes.
- a) **two** b) Three c) Four d) One

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