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Sub. Biology

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Based on NCERT patterns

Questions practice for PA 1

1. Match the terms in Column I with the descriptions in Column II.

Column I	Column II
A. Pericarp	1. Cotyledon in the seeds of grasses.
B. Pollen grains of Vallisneria	2. Remains of nucellus in a seed.
C. Perisperm	3. Mucilaginous covering.
D. Scutellum	4. Wall of the true fruit.

2. Match the terms in Column I with the descriptions in Column II.

Column I	Column II
A. Syncarpous ovary	1. Occurrence of more than one embryo in a seed.
B. Polyembryony	2. Carpels in a flower are fused together.
C. Apomixis	3. Removal of Stamens from the bisexual flower bud.
D. Emasculation	4. Formation of seeds without fertilisation.
	5. Development of ovary into fruit without fertilisation.

3. Sepals and petals or perianth are inconspicuous in entomophilous flowers.
[True/False]

4. In *Zostera*, the pollen grains are long and ribbon-like and released inside the water. [True/False]

5. Embryo sac → Nucellus → Integuments, is the correct sequence of parts in the ovule of an angiosperms. [True/False]
6. Conidia are formed endogenously while zoospores are formed endogenously. [True/False]
7. Meiosis does not occur in the organisms showing haplontic life cycle. [True/False]
8. How many microsporangia are present in a typical anther of angiosperm?
9. Name the innermost and outermost wall layers of a microsporangium in an angiosperm anther.
10. An anther with malfunctioning tapetum often fails to produce viable male gametophyte. Give any one reason.
11. How many microspore mother cells would be required to produce one hundred pollen grains in a pollen sac? And why?