

PM SHRI KENDRIYA VIDYALAYA DHARMAPURI

HOLIDAY HOMEWORK

BIOLOGY - 12TH

Sexual Reproduction in flowering plants

Board Based question

Very short Answer Question (1 marks):

- 1) What is meant by ditheous anther?
- 2) How many microsporangia are present in an anther?
- 3) What is exine and intine made up of respectively?
- 4) Name the two cells a mature pollen grain has?
- 5) What do the tassels of a corn cob represent?

Two marks:

- 1) Name the four wall layers of a microsporangium?
- 2) Name the innermost wall of a microsporangium mention its function?
- 3) What are germ pores? What is their significance ?
- 4) How is geitonogamy different from autogamy?
- 5) What is apomixis different from polyembryony ?

3 marks:

- 1) How is a vegetative cell different from a generative cell?
- 2) Draw a labeled diagram of a mature embryo sac of an angiosperm?
- 3) What are chasmogamous flowers ? How are they different from cleistogamous flowers?
- 4) How is pollination effected in Vallisneria?
- 5) Difference between albuminous and non albuminous seeds?

5 marks:

1)

A) What are outcrossing devices?

B) Continuous self pollination results in inbreeding depression in plants. Describe four devices by which cross pollination is encouraged in nature?

2) Describe meiosis in angiosperms

3) How does a typical dicot embryo differ from monocot embryo?

Explain with the help of a labelled diagram?