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- Q 1- Name the resistant material helps in the preservation of pollen grains. 1
- Q 2- Which are the three cells found in a pollen grains when it is shed at 3 celled stage? 1
- Q 3 What is meant by monosporic development of female gametophyte? 1
- Q 4- Why do you think the zygote is dormant for sometime in a fertilised ovule? Why? 2
- Q 5- Draw a labelled structure of Graafian follicle. 2

**OR**

Draw a labelled diagram of the microscopic structure of a human sperm.

- Q 6- Describe the post fertilization changes in a flower. 3
- Q 7- Differentiate between microsporogenesis and megasporogenesis. Which type of cell division occurs during these events? Name the structures formed at the end of these two events. 3
- Q 8- What is menstrual cycle? Which hormones regulate menstrual cycle? 3
- Q 9- Is sex education necessary in schools? Why? 3
- Q 10- Out of many papaya plants growing in your garden, only a few bear fruits. Give reasons. 3

**OR**

Correct the following statements:

- a) Surgical methods of contraception prevent gamete formation.
- b) All sexually transmitted diseases are completely curable.
- c) In embryonic transfer techniques, embryos are always transferred into the uterus.
- Q 11- Amniocentesis for sex determination is banned in our country. Is this ban necessary? Comment. 3
- Q 12- Draw a labelled diagram of male reproductive system. What are the major functions of male accessory ducts and glands. 5

**OR**

Give a brief account of oogenesis in human female. How it is different from spermatogenesis of human male?

- Q 13- Write the functions of the following: 5
- Corpus luteum, endometrium, acrosome, oviduct, trophoblast

**OR**

The zygote passes through several developmental stages till implantation. Describe each stage briefly with suitable diagrams.

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