

**Biology Question Paper 3**  
**Class X**  
**Total Marks: 30**  
**Time: 1 Hour**

**Q1. Fill in the blanks (4 marks)**

- a. The \_\_\_\_\_ in the male reproductive system contains numerous seminiferous tubules.
- b. Asexual reproduction by \_\_\_\_\_ occurs in Spirogyra when its filaments break into fragments.
- c. The \_\_\_\_\_ hormone stimulates the growth of follicles in the ovary.
- d. In sexual reproduction, the zygote is formed by the union of \_\_\_\_\_ gametes.

**Q2. Write definitions (4 marks)**

Define the following terms:

- a. Asexual reproduction
- b. Sexual reproduction
- c. Menstrual cycle
- d. In Vitro Fertilization (IVF)

**Q3. Answer the following (6 marks)**

1. **Distinguish between (2 marks):** Bisexual flower and Unisexual flower.
2. **Give the name (4 marks):**
  - i. Two organisms that reproduce by budding.
  - ii. Two parts of the female reproductive system.
  - iii. Two types of twins.
  - iv. Two methods of asexual reproduction in unicellular organisms.

**Q4. Answer the following questions (Answer any three) (12 marks)**

- a. Explain the process of multiple fission in Amoeba with a diagram.
- b. Describe the role of the corpus luteum in the menstrual cycle.
- c. What is fragmentation? Explain with reference to Spirogyra.
- d. Explain the process of sperm formation in the human male reproductive system.

- e. Describe the structure and function of the human female reproductive system.

### **Q5. Diagram with explanation (4 marks)**

Draw a labelled diagram of the menstrual cycle and explain the role of estrogen and progesterone.