BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

MODES OF REPRODUCTION

Important Questions

1. What is meant by heterospory ? Mention the two types of spores developed in an

angiospermic plant?

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2. Mention the modes of reproduction in Algae and Fungi.

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3. Between an annual and a perinneal plant, which one has a shorter juvenile phase? Give one reason.

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4. Which of the following are monoecious and dioecious organisms :

a) Data palm b) Coconut c) Chara d) Marchantia.

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5. Define vivipary with an example.

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6. List the changes observed in angiosperm flower subsequent to pollination and fertilisation.

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7. Distinguish between asexual and sexual reproduction. Why is vegetative reproduction also considered as a type of asexual reproduction?

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8. Enumerate the differences between asexual and sexual reproduction. Describe the types of asexual reproduction exhibited by unicellular organisms.

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Very Short Answer Type Questions

1. What is the dominant phase in the life cycle of an angiosperm?

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2. What is meant by heterospory ? Mention the two types of spores developed in an angiospermic plant?

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3. Mention the modes of reproduction in Algae and Fungi.

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4. How do Liver worts reproduce vegetatively?

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5. Mention any two characteristics of bacteria and yeast that enable them to reproduce

asexually.

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6. Why do we referto offspring formed by asexual method of reproduction as clones?

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7. Between an annual and a perinneal plant, which one has a shorter juvenile phase? Give one reason.

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8. Rearrange the following events of sexual reproduction in the sequence in which they occur in a flowering plant : embryogenesis, fertilisation, gametogenesis, pollination.

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9. Give reasons as to why cell division can or cannot be a type of reproduction in

multicellular organisms.

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10. Which of the following are monoecious and dioecious organisms :

a) Data palm b) Coconut c) Chara d) Marchantia.

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11. Match the following given in Column A with the vegetative propagules given in Column B.

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12. What do the following parts of a flower develop into after fertilisation?

a) Ovary b) Stamens c) Ovules d) Calyx.

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13. Define vivipary with an example.

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Short Answer Type Questions

1. Write a brief account on gametogenesis with examples.

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2. Give an account of sexuality in organisms.

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3. 'Fertilisation is not an obligatory event for fruit production in certain plants". Explain the statement.

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4. List the changes observed in angiosperm flower subsequent to pollination and fertilisation.

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5. Define : a) Juvenile phase, b) Reproductive phase.

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6. Distinguish between asexual and sexual reproduction. Why is vegetative reproduction also considered as a type of asexual reproduction?

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7. Identify each part in a flowering plant and write whether it is haploid (n) or diploid (2n).

(a) Ovary ----------

(b) Anther ----------

(c) Egg ----------

(d) Pollen ----------

(e) Male gamete ----------

(f) Zygote ----------

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8. Give a brief account on the phases of the life cycle of an angiosperm plant.

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Long Answer Type Questions

1. Enumerate the differences between asexual and sexual reproduction. Describe the types of asexual reproduction exhibited by unicellular organisms.

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2. Describe the post-fertilisation changes in a flower.

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Textual Exercises

1. Why is reproduction essential for organisms?

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2. Which is a better mode of reproduction: sexual or asexual? Why?

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3. Why is the offspring formed by asexual reproduction referred to as clone?

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4. How does the progeny formed from asexual reproduction differ from those formed by sexual reproduction?

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5. What is vegetative propagation? Give two suitable examples.

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6. Higher organisms have resorted to sexual reproduction in spite of its complexity. Why?

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7. Explain why meiosis and gametogenesis are always interlinked?

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8. Define external fertilisation. Mention its disadvantages.

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9. Differentiate between a zoospore and a zygote.

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10. Examine a few flowers of any cucurbit plant and try to identify the staminate and pistillate flowers. Do you know any other plant that bears unisexual flowers?

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11. What is a bisexual flower? Collect five bisexual flowers from your neighbourhood and with the help of your teacher find out their common and scientific names.

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