



# BIOLOGY

## BOOKS - JMD BIOLOGY (PUNJABI ENGLISH)

### REPRODUCTION IN ORGANISMS

#### Exercise

1. Vegetatively propagated plants

- A. Clone of their parent
- B. Show adaptive variations
- C. Better fitted for struggle for existence
- D. Stoutier than parents

**Answer: A**



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2. Stem cuttings are employed in the propagation of

A. Banana

B. Mango

C. Sugar Cane

D. Cotton

**Answer: C**



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**3. Vegetatively propagated plants are**

A. Genetically similar

B. Genetically dissimilar

C. Donot bear roots

D. Donot for buds

**Answer: A**



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4. During favourable conditions, Amoeba reproduces by

A. Binary fission

B. Multiple fission

C. Both of these

D. None of these

**Answer: A**



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5. In which pair both the plants can be vegetatively propagated by leaf pieces?

A. Bryophyllum and Kalanchoe

B. Chrysanthemum and Agave

C. Agave and Kalanchoe

D. Asparagus and Bryophyllum

**Answer: A**



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6. Which one of the following plants is monoecious?

A. Marchantia

B. Cycas

C. Pinus

D. Papaya

**Answer: C**



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7. Vegetative propagation in mint occurs by

A. Sucker

B. Runner

C. Offset

D. Rhizome

**Answer: A**



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**8. What is meant by gestation period?**



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**9. Vegetative propagation in Pistia occurs by**



A. Sucker

B. Runner

C. Offset

D. Stolon

**Answer: C**



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**10.** In which pair both the plants can be vegetatively propagated by leaf pieces?

A. Bryophyllum and Kalanchoe

B. Chrysanthemum and Agave

C. Agave and Kalanchoe

D. Asparagus and Bryophyllum

**Answer: A**



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**11.** The living organisms can be unexceptionally distinguished from the non - living things on the basis of their ability for :

A. Interaction with environment and progressive evolution

B. Reproduction

C. Growth and movement

D. Resoonsive to touch

**Answer: D**



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**12. The eyes of potato tuber are**

A. Shoot buds

B. Axillary

C. Root buds

D. Flower buds

**Answer: B**



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**13. Which is correctly matched?**

A. Onion - Bulb

B. Yeast - Zoospores

C. Chlamydomonas - Conidia

D. Ginger - Sucker

**Answer: A**



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**14.** Which is commonly to multicellular fungi, algae and moss protonema?

A. Diplontic life cycle

B. Member of kingdom plantae

C. Mode of nutrition

D. Fragmentation

**Answer: D**



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**15.** Which of the following pairs is wrongly matched while the remaining three are correct?

A. Agave - Bulbils

B. Penicillium - Conidia

C. Water hyacinth - Runner

D. Brophyllum - Leaf buds

**Answer: C**



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**16. Meiosis takes place in**

A. Gemmule

B. Megaspore

C. Meiocyte

D. Conidia

**Answer: C**



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**17. Monoecious pal Chara shows occurrence of**

A. upper antheridium and lower

oogonium on the same plant



B. upper oogonium and lower

antheridium on the same plant

C. antheridiophore and archegoniophore

on the same plant

D. stamen and carpel on the same plant

**Answer: B**



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**18.** Choose the correct pair of the followings:

A. Coconut , cucurbits - dioecious

B. Honeybee, rotifers - parthenogenesis

C. Ornithorhyncus, whale - viviparity

D. Frog , peacock - external fertilisation

**Answer: A**



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**19.** In Ginger, vegetative propagation occurs through

A. Rhizome

B. Offsets

C. Bulbils

D. Runners

**Answer: A**



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**20.** which of the following pairs is wrongly matched

A. Binary fission (Mode of reproduction)

Sargassum (Example)

B. Conidia (Mode of reproduction)

Penicillium (Example)

C. Offset (Mode of reproduction) Water

Hyacinth (Example)

D. Rhizome (Mode of reproduction) Banana

(Example)

**Answer: B**



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21. In bryophytes and pteridophytes, transport of male gametes requires which of the following medium :

A. Insects

B. Birds

C. Water

D. Wind

**Answer: C**



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22. Which one of the following statements is not correct?

A. In potato, banana and ginger, the plantlets arise from the internodes present in the modified stem.

B. Water hyacinth, growing in the staning water, drains oxygen from water that leads to the death of fishes.

C. Offspring produced by the asexual reproduction are called clone

D. Microscopic, motile asexual reproductive structures are called zoospores.

**Answer: A**



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**23. Match of the following columns**

A. Irregular binary fission (i) Dinoflagellates

B. Longitudinal binary fission (ii) Planaria

C. Transverse binary fission (iii) Euglena

D. Oblique binary fission (iv) Amoeba

A. (1) A(i), B(iii), C(iv), D(ii)

B. (2) A(i), B(ii), C(iii), D(iv)

C. (3) A(iv), B(iii), C(ii), D(i)

D. (4) A(iii), B(i), C(ii), D(iv)

**Answer: C**



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24. Offset in water hyacinth are produced by

- A. Mitotic divisions
- B. Parthenocarpy
- C. Meiotic divisions
- D. Parthenogenesis

**Answer: A**



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25. Which of the following flowers only once in its lifetime?

A. Jackfruit

B. Mango

C. Bamboo

D. Papaya

**Answer: C**



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## 26. Fill in the blanks

Binary fission involves both \_\_\_\_\_ and \_\_\_\_\_.



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## 27. Fill in the blanks

External budding occurs in \_\_\_\_\_ in \_\_\_\_\_ while internal budding occurs in \_\_\_\_\_.



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**28.** Fill in the blanks

\_\_\_\_\_ animal contains testes and ovaries.



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**29.** Fill in the blanks

Earthworm is \_\_\_\_\_ while cockroach is \_\_\_\_\_.



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**30. Fill in the blanks**

\_\_\_\_\_in penicillin are formed on conidiophores.



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**31. Fill in the blanks**

In sweet potato vegetative propagation takes place through\_\_\_\_\_.



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### 32. Fill in the blanks

In Bryophyllum vegetative propagation text place through \_\_\_\_\_.



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### 33. Fill in the blanks

In vegetative propagation, characters of parent plants are \_\_\_\_\_.



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**34. Fill in the blanks**

Neelakuranji flowers once in \_\_\_\_\_ years.



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**35. Fill in the blanks**

In flowering plant the unisexual male flower is \_\_\_\_\_.



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**36. Fill in the blanks**

Vegetative propagule in Agave is \_\_\_\_\_.



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**37. Fill in the blanks**

Lifespan of butterfly is \_\_\_\_\_.



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**38.** Fill in the blanks

Thick wall of a fruit is \_\_\_\_\_.



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**39.** Fill in the blanks

2n chromosome number of butterfly is \_\_\_\_\_.



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#### 40. Fill in the blanks

estrous cycle is under the influence of \_\_\_\_\_ hormone.



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#### 41. True and False Type Questions

Fusion of male and female gametes produces blastocyst.



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## 42. True and False Type Questions

Amoeba is called immortal because it does not undergo natural death.



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## 43. True and False Type Questions

Buds are unicellular in Yeast what are multicellular in Hydra



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#### 44. True and False Type Questions

Hydra has good power of regeneration.



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#### 45. True and False Type Questions

The fusion of germ cells leads to the formation of male gametes.



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## 46. True and False Type Questions

Yeast is green unbranched, filamentous algae.



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## 47. True and False Type Questions

Parrot has lifespan of 140 years.



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## 48. True and False Type Questions

Meiosis is must in asexual reproduction .



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## 49. True and False Type Questions

Euglena divides by longitudinal binary fission.



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## 50. True and False Type Questions

Papaya plant is dioecious.



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## 51. True and False Type Questions

Asexual reproductive structure in Hydra is conidia.



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## 52. True and False Type Questions

Monkeys show oestrous cycle.



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## 53. True and False Type Questions

Staminate is female part of a flower.



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## 54. True and False Type Questions

Gametes are always diploid.



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## 55. True and False Type Questions

Monkeys are placed in order primate.



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## 56. Define external fertilization?



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**57. What is parthenogenesis?**



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**58. Why is reproduction essential for every organism?**



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**59.** Which is better mode of reproduction, sexual or asexual ? Why?



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**60.** Why is vegetative reproduction also considered as a type of a sexual reproduction ?



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**61.** What is fission? What is the basic difference between fission in amoeba and paramecium?



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**62.** "Potato is a stem and sweet potato is a root." Justify the statement.



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**63.** Which type of Mammals show Oestrus cycle ?



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**64.** Why is offspring formed by asexual reproduction referred to as clone ?



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**65.** Give a comparative account of binary fission and budding.



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**66.** Emergency contraceptives are effective if used within

A. a. 72 hours of coitus

B. b. 72 hours of ovulation

C. c. 72 hours of menstruation

D. d. 72 hours of implantation

**Answer:**



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**67.** Condoms are one of the most popular contraceptives because of the following reasons

A. a. these are effective barriers for insemination.

B. b. they do not interfere with coital act.

C. c. these help in reducing the risk of STDs.

D. d. all of the above.

**Answer:**



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**68.** The method of directly injecting a sperm into ovum is assisted reproductive technology is called



A. a. GIFT

B. b. ZIFT

C. c. ICSI

D. d. ET

**Answer:**



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**69.** The oral contraceptive pills mainly contain the hormones

A. a. estrogen and LH

B. b. progesterone and estrogen

C. c. estrogen and FSH

D. d. progesterone and FSH

**Answer: A**



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**70.** Diaphragms are the contraceptive devices used by females. Choose the correct option about them.

A. a. they are reusable.

B. b. they block the entry of sperms

C. c. they are placed to cover the cervix.

D. d. All of these

**Answer:**



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**71.** ZIFT is transfer of

A. a. zygote into fallopian tube.

B. b. a mixture of sperms and ova into the fallopian tube.

C. c. a mixture of sperms and ova into the uterus

D. d. embryo into the uterus

**Answer:**



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**72. Saheli is a/an**

A. a. oral contraceptive for females.

B. b. surgical/sterilisation method for females.

C. c. diaphragm for females.

D. d. surgical/sterilisation method for males.

**Answer:**



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**73.** Contraceptive pills prevent ovulation and implantation. this statement is true or false.



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**74.** Sterilisation process in males, is called vasectomy and that in females, is called tubectomy. this statement is true or false



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**75.** State one reason why breast feeding the baby acts as a natural contraceptive,for the mother ?



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**76.** Why is the period between day 10 and 17 of the menstrual cycle, called fertile period?



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