BIOLOGY

BOOKS - ARIHANT PRAKASHAN

REPRODUCTION IN ORGANISMS

Topic 01 Practice Questions Exam Textbook S Other Imp Questions 1 Mark Questions

1. Correct the statements without changing underlined words only

Yeasts generally reproduce asexually by fission

.

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2. What are the totipotent cells of Planaria called? (Neoblasts, Sertoli cells, Follicular cells, Helper cells)

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3. Fill up the blanks

In ....., a living organism divides equationally.

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Topic 01 Practice Questions Exam Textbook S Other Imp Questions 1 Mark Questions

1. Fill up the blanks

Under unfavourable conditions, when a number of tiny Amoeba are produced, it is called .....

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2. Fill up the blanks

Internal buds in sponges are called .....

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3. Fill up the blanks

The process of perennation of species takes place by .....

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4. Fill up the blanks

Non-motile asexual reproductive units are called ..... .

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5. Fill up the blanks

Zoospores are borne inside .....

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6. What can be called to sexual reproductive units?

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7. What is the general asexual method of reproduction in Amoeba?

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8. What is called the motile asexual reproduction units?

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9. Correct the statement without changing underlined words only

In binary fission, many cells can be produced from one cell.

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10. Correct the statement without changing underlined words only

Internal buds in sponges are called gemma cups.

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11. Is Aspergillus reproduces asexually by zoospores?

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Topic 01 Practice Questions Exam Textbook S Other Imp Questions 2 1 2 Marks Questions

1. Write a short note on sporulation.

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2. How does asexual reproduction take place in sponges?

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3. How does multiple fission occur in Amoeba?

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4. Write a short note on budding in Hydra.

Watch Video Solution

5. Why is reproduction essential for the organisms?

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6. Write a note on fragmentation.

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Topic 01 Practice Questions Exam Textbook S Other Imp Questions 3 1 2 Marks Questions

1. Differentiate between asexual reproduction and sexual reproduction.

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2. Differentiate between binary fission and multiple fission.

 Watch Video Solution

3. Differentiate between fragmentation and budding.

 Watch Video Solution

4. Differentiate between zoospores and conidia.

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Topic 01 Practice Questions Exam Textbook S Other Imp Questions 7 Marks Questions

1. Describe briefly different methods of asexual reproduction in organisms.

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2. Describe the process of asexual reproduction in lower organisms.

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Topic 01 Topic Test 1

1. The formation of a new plant from vegetative parts of plant is called

A. sporulation

B. multipe fission

C. vegetative propagation

D. budding

Answer: C

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2. Transverse binary fission is observed in .....

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3. Which kinds of organisms are called immortal?

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4. What do you mean by ramet?

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5. How does Planaria regenerate its lost body part?

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6. What are various advantages of asexual reproduction?

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7. Why are the offspring produced by asexual reproduction also called clones?

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8. What do you understand by torula stage?

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9. Differentiate between binary fission and multiple fission.

Watch Video Solution

10. Describe types of fission in Amoeba with the help of labelled diagram.

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Topic 02 Practice Questions Exam Textbook S Other Imp Questions 1 Mark Questions

1. Choose the correct option

The process by which scion is inserted

successfully into the stock to form a new plant is called .....

A. layering.

B. cutting

C. grafting

D. budding

Answer: C

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2. Fill in the blanks with correct answer from the choices given in the bracket

Dahlia propagates by..... (roots, stem, leaf, seed)

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3. Fill in the blanks with correct answer from the choices given in the bracket

Zoospores are endogenously borne inside the

structures called ..... (sporangia, conidia, gemmules, buds)

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4. Fill in the blanks

In Bryophyllum, adventitious buds are borne on .....

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5. Fill in the blanks

..... is commonly practiced for root induction.

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6. Fill in the blanks

In grafting, the rooted plant is called stock and stem cuting of donor plant is called .....

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7. Fill in the blanks

Conifer cutting is practiced for propagating .....

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8. Fill in the blanks

Rooting in stem cuttings is stimulated by using .....

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9. Fill in the blanks

In grafting, the rooted plant is called stock and stem cuting of donor plant is called .....

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10. In which process, can large number of adventitious buds be formed?

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11. Mode of vegetative propagation in Pistia.

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12. The alternative term used for air layering.

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13. In mound layering, branches at lower portion of the stem are put in the soil at many places.

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14. Correct the statements without changing underlined words only

Dahlia reproduces vegetatively by stems.

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Topic 02 Practice Questions Exam Textbook S Other Imp Questions 2 1 2 Marks Questions

1. Why vegetative propagation is considered as a type of asexual reproduction?

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2. Write a note on cutting.

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3. Why do internodal segments of sugarcane fail to propagate vegetatively even when they

are in contact with damp soil?

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4. Is it possible to consider vegetative propagation observed in certain plants like Bryophyllum, water hyacinth, ginger, etc., as a type of asexual reproduction? Give two/three reasons.

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Topic 02 Practice Questions Exam Textbook S Other Imp Questions 3 1 2 Marks Questions

1. Differentiate between explant and callus.

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2. Write a short note on micropropagation.

Watch Video Solution

3. Differentiate between grafting and layering.

Watch Video Solution

Topic 02 Practice Questions Exam Textbook S Other Imp Questions 7 Marks Questions

1. Mention the advantages and disadvantages of vegetative propagation.

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2. Give an account of vegetative reproduction in angiosperms.

Watch Video Solution

3. Describe the process of micropropagation and its advantages.

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Topic 02 Topic Test 2

1. Choose the correct option

Micropropagation is a technique

A. of production of variant species

B. of production of mutants

C. of production of true plants

D. All of the above

Answer: C

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2. Choose the correct option

Which one of the following is not an underground modified stems possessing buds which grow into new plants?

A. Stolon

B. Sucker

C. Bulb

D. Rhizome

Answer: A

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3. Correct the statement, if required by changing the underlined word

Almonds can be grown successfully, if stock and scion are of <u>different</u> species.

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4. Fill in the blank

An undifferentiated mass of cells is called .....

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5. Why the grafted portion of the plant is covered by wax?

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6. What are the three types of layering method?

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7. Difference between: micropropagation and tissue culture

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8. What are bulbils? How do they reproduce vegetatively?

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9. Describe the process of micropropagation and its advantages.

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10. Give an account of artificial vegetative propagation.

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Chapter Test 1 Mark Questions

1. Fill up the blanks

Vegetative propagule in Bryophyllum is.....

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2. Fill up the blanks

..... shows asexual reproduction by fragmentation.

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3. Fill up the blanks

Suckers are used as vegetative propagule in .....

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4. Name any one organism that reproduces asexually by zoospores.

Watch Video Solution

5. Name the vegetative propagule in Agave.

Watch Video Solution

6. Choose the correct option

Which one of the following processes results in the formation of clone of bacteria?

A. Binary fission

B. Conjugation

C. Transformation

D. Transduction

Answer: A

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7. Choose the correct option

Planaria possesses high capacity of

A. metamorphosis

B. regeneration

C. alternation of generations

D. bioluminescene

Answer: B

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Chapter Test 2 1 2 Marks Questions

1. How does yeast reproduce asexually? Show it diagrammatically.

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2. How does Penicillium reproduce asexually?

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3. How do roots take part in vegetative propagation?

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4. How does Bryophyllum multiply vegetatively?

Watch Video Solution

5. Write a short note on gemmules in sponges.

Watch Video Solution

6. Write a short note on micropropagation.

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Chapter Test 3 1 2 Marks Questions

1. Differentiate between cutting and layering.

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2. Differentiate between binary fission and multiple fission.

Watch Video Solution

3. Differentiate between internal and external buddings.

Watch Video Solution

Chapter Test 7 Marks Questions

1. Write a short note on types of layering.

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2. Describe the method which includes propagation of plants by culturing the cells, tissues and organs.

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3. Describe the process of multiple fission in Amoeba with labelled diagram.

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4. Write a short note on micropropagation.

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