

BIOLOGY

BOOKS - ARIHANT PRAKASHAN

VERY SIMILAR TEST 3

Section A Botany Group A Fill In The Blanks

1. Pistil may be if more than one pistil are fused together .

- A. syncarpous
- B. multicarpellary
- C. apocarpous
- D. monocarpellary

Answer: A::C



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2. Which enzyme is used in clarifying fruit juices?

- A. Cellulase
- B. Amylase
- C. Lipase
- D. Pectinase

Answer: A::C



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3. Most hazardous gaseous pollutant of automobile exhaust is

A. CH_4

B. CO_2

C. *CO*

D. NO_2

Answer: A::B::C::D



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4. has dual function as it codes for methionine and also acts as initiation codon

A. AAU

B. AUG

C. UAA

D. UAG

Answer: A



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5. Monohybrid cross yields types or number of genotypes in F_1 - generation

- A. one
- B. three
- C. two
- D. four

Answer:



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6. Removal of stamens flower before the anthers mature ?



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7. RNA does not have guanine as nitrogenous base. Correct the statements if required by changing the underlined word.



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8. Out of the total solar energy, PAR is only 1-5%.



9. A flower is said towhen both the sex organs are missing.



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10. Dahlia reproduces vegetatively by $\underline{\mathrm{stems}}$



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Section A Botany Group B

1. Parthenocarpic tomato fruits can be produced by:



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2. Objectives of plants breeding



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3. Write short note on types of xerophytes.



4. Write short note on the following Sporulation



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5. Loops of tRNA



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6. Detritus food chain



7. Differentiate between

Mesophytes and Hydrophytes



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8. Differentiate between any one of the following with 2 to 3 important points.

Anther culture and Endosperm culture



9. Chasmogamous and Cleistogamous flower.



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Section A Botany Group C

1. Explain the mechanism of double fertilization.



2. List the changes each part of the fertilised ovule undergoes to develop into a seed



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3. Give a pure genetic explanation for the following cross, when a tall pea plant with round seeds was crossed with a pea plant that is dwarf having wrinkled seeds. Individuals of F_1 population were all tall having round seeds . However, selfing among F_1 population led to a 9:3:3:1 phenotypic ratio



4. Explain the process of DNA replication with the help of a diagram. In which phase of the cell cycle does it occurs in eukaryotes? What would happen if cell division is not followed after DNA replication?



5. List out the events that reduce Biological Oxygen Demand (BOD) of a primary effluent

during sewage treatment



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Section B Zoology Group A

1. Name the scientists who developed the first transgenic mice



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2. Ringworm in humans is caused by

A. viruses
B. bacteria
C. fungi
D. nematodes
nswer:
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3. Sex chromosomes of a female bird are represented by

- A. XO
- B. XX
- C. ZW
- D. ZZ

Answer:



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4. A sexually transmitted disease symptomised by the development of chancre on the genitals is caused by

A. HIV
B. hepatitis - B virus
C. Neisseria
D. Treponema pallidum
Answer: A::B::C::D
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5. Mammalian placenta is formed from

A. yolk sae

- B. chorion allantois
- C. chorion
- D. amnion

Answer: A::B::C::D



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6. Antibody production is assisted by monocytes.



7. Phenomenon of rejection of self celis is called



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8. The scientific name of the pathogen causing ascariasis is



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9. Exotic breed of poultry bird is



10. The lower invertebrates emerged during the



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Section B Zoology Group B

1. What are molecular diagnostic techniques?



2. Describe what is intrauterine insemination



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3. Atavism is



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4. What are Interferons?



5. Describe swarming.



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6. What is phagocytosis?



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7. Differentiate between Communicable diseases and Non-communicable diseases.



8. Lamarckism and Darwinism.



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9. Difference between:Benign Tumour and Malignant Tumour.



1. Secondary sexual characters



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2. Mammary glands



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3. What is Hardy - Weinberg principle?



4. XO type sex-determination



5. Describe various environmental factors that help in sex-determination.



6. Mention the event that induces the completion of the meiotic division of the

secondary oocyte



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7. Trace the journey of the ovum from the ovary, its fertilisation and further development until the implantation of the embryo



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8. Describe the characteristics a cloning vector must possess.



9. How bacterial cells are made competent to take up DNA?

