



BIOLOGY

BOOKS - ARIHANT PRAKASHAN

VERY SIMILAR TEST 5

Section A Botany Group A

1. Fill in the blanks selecting the appropriate terms given under each bit:

(a) Which of the following causes biomagnification?

A. SO_2

B. Mercury

C. DDT

D. Both (ii) and (iii)

Answer:



Watch Video Solution

2. Fill in the blanks selecting the appropriate terms given under each bit:

(b) The phenomenon wherein, the ovary develops into a fruit without fertilisation is called as

A. apomixis

B. parthenocarpy

C. a sexual reproduction

D. sexual reproduction

Answer:



Watch Video Solution

3. Fill in the blanks selecting the appropriate terms given under each bit:

(c) UAA, UAG and UGA are

- A. Starting codons
- B. non-overlapping codons
- C. non-sense codons
- D. degenerate codons

Answer:



Watch Video Solution

4. Fill in the blanks selecting the appropriate terms given under each bit:

(d) When a single gene exhibits more than one phenotypic effect, the phenomenon is known as

A. polygeny

B. multiple allelism

C. pleiotropy

D. codominance

Answer:



Watch Video Solution

5. Fill in the blanks selecting the appropriate terms given under each bit:

(e) A free-living bacteria that can fix nitrogen in the soil is

A. Spirulina

B. Azospirillum

C. Pseudomonas

D. Saccharomyces cerevisiae

Answer:



Watch Video Solution

6. Correct the statements of each bit if required, by changing the underlined word only:

(a) Primary succession starts at a place where living matter have existed previously.



[Watch Video Solution](#)

7. Correct the statements of each bit if required, by changing the underlined word only:

Homogametes are morphologically distinct as male and female gametes.



[Watch Video Solution](#)

8. Correct the statements of each bit if required, by changing the underlined word only:

(c) Embryo develops from zygote at the chalazal end of embryo sac.



Watch Video Solution

9. Correct the statements of each bit if required, by changing the underlined word only:

(d) Two strands of DNA molecule run parallel to each other.



[Watch Video Solution](#)

10. Correct the statements of each bit if required, by changing the underlined word only:

(e) Cross breeding involves crossing between male and female animals of two different species.



[Watch Video Solution](#)

Section A Botany Group B

1. Pyramid of energy



[Watch Video Solution](#)

2. Write short note on any three of the following each with two or three important points:

(b) Anatomical adaptations in xerophytes



 [Watch Video Solution](#)

3. Write short note on any three of the following each with two or three important points:

(c) Copper releasing IUDs



[Watch Video Solution](#)

4. Write short note on Lactation



[Watch Video Solution](#)

5. Write short note on any three of the following each with two or three important points:

(e) Embryo rescue



Watch Video Solution

6. Write short note on any three of the following each with two or three important points:

(f) Back cross





[Watch Video Solution](#)

7. Differentiate between any one pair of the following, each with three to four important points.

(a) Geitonogamy and Xenogamy



[Watch Video Solution](#)

8. Differentiate between any one pair of the following, each with three to four important points.

(b) Seral and Climax community of ecological succession



[Watch Video Solution](#)

9. Differentiate between any one pair of the following, each with three to four important points.

(c) Callus and Suspension culture



[Watch Video Solution](#)

Section A Botany Group C

1. Describe the structure of DNA?



[Watch Video Solution](#)

2. Answer any two of the following questions each within 200 words:

Describe in sequence, the process of microsporogenesis in angiosperms. Comment on the structure of a mature pollen grain.



[Watch Video Solution](#)

3. Explain monohybrid cross taking seed coat colour as a trait in *Pisum sativum*. Workout the cross upto F_2 - generation



[Watch Video Solution](#)

4. Answer any two of the following questions each within 200 words:

Briefly describe the steps involved in a plant breeding programme.



[Watch Video Solution](#)

Section B Zoology Group A

1. Choose the correct answer from the choices given under each bit/Give the answer in one word only:

(a) What is the name of the disease for which the first clinical gene therapy was done?



[Watch Video Solution](#)

2. Choose the correct answer from the choices given under each bit/Give the answer in one word only:

(b) Humoral immune response was conferred by which type of cells?



[Watch Video Solution](#)

3. Choose the correct answer from the choices given under each bit/Give the answer in one word only Which hormone regulates the sertoli cells ?

A. Follicle stimulating hormone

B. Luteinising hormone

C. Growth hormone

D. Progesterone

Answer:



Watch Video Solution

4. Choose the correct answer from the choices given under each bit/Give the answer in one word only:

(d) The condition of low sperm count is known as

A. oligospermia

B. azospermia

C. PCOS

D. None of these

Answer:



Watch Video Solution

5. The karyotype in Klinefelter. syndrome is

A. `

B.

C.

D.

Answer:



Watch Video Solution

6. Fill in the blanks with correct answer(s).

Correct the underlined portion of the sentence:

(a) Oral ty21a is an inactivated vaccine for typhoid.



Watch Video Solution

7. Fill in the blanks with correct answer(s).

Correct the underlined portion of the sentence:

(b) The first larval stage of Ascaris is filariform

.



Watch Video Solution

8. Fill in the blanks with correct answer(s).

Correct the underlined portion of the sentence:

(c) IgA is the first antibody to be synthesised in neonatal babies.



Watch Video Solution

9. Fill in the blanks with correct answer(s).

Correct the underlined portion of the sentence:

(d) The primitive atmosphere was oxidising.



Watch Video Solution

10. Fill in the blanks with correct answer(s).

Correct the underlined portion of the sentence:

(e) Sunandini was developed by crossing Brown Swiss bull with Sahiwal cows.



[Watch Video Solution](#)

Section B Zoology Group B

1. Answer any three of the following (restrict each answer to two or three important Sentences):

(a) What may be the possible effects of indiscriminate use of steroids and analgesics to the body?



[Watch Video Solution](#)

2. Answer any three of the following (restrict each answer to two or three important Sentences):

(b) What is a patent?



Watch Video Solution

3. Answer any three of the following (restrict each answer to two or three important Sentences):

(c) How is in vitro fertilisation and embryo transfer carried out?



Watch Video Solution

4. Why are human females rarely haemophilic?



Watch Video Solution

5. Answer any three of the following (restrict each answer to two or three important

Sentences):

(e) Write about Indian polutry breeds.



Watch Video Solution

6. Answer any three of the following (restrict each answer to two or three important

Sentences):

(f) Discuss two common allergic reactions.



Watch Video Solution

7. Differentiate between any one of the following pairs (restrict the answer to three or four important differences):

(a) Interferons and Antibodies



[Watch Video Solution](#)

8. Differentiate between any one of the following pairs (restrict the answer to three or four important differences):

(b) Darwin's and de Vries concept of evolution





[Watch Video Solution](#)

9. What are benign and malignant tumours ?



[Watch Video Solution](#)

Section B Zoology Group C

1. Answers any two questions (restrict each answer within 200 words):

Write notes on any two of the following:

(a) Founder effect



[Watch Video Solution](#)

2. Answers any two questions (restrict each answer within 200 words):

Write notes on any two of the following:

(b) Gynandromorph



[Watch Video Solution](#)

3. Answers any two questions (restrict each answer within 200 words):

Write notes on any two of the following:

(c) Cleavage



[Watch Video Solution](#)

4.

Write notes on the following:

The similarities in spermatogenesis and oogenesis.



[Watch Video Solution](#)

5. Answers any two questions (restrict each answer within 200 words):

What do you understand by sex-determination? Describe sex-determination in honeybee.



[Watch Video Solution](#)

6. Describe, how the changing levels of FSH, LH and progesterone during menstrual cycle

induce changes in the ovary and the uterus in human female.



Watch Video Solution

7. Answers any the question :

Describe the strategy involved in the production of Bt crops.



Watch Video Solution