



# BIOLOGY

## BOOKS - ARIHANT PRAKASHAN

### VERY SIMILAR TEST 9

#### Section A Botany Group A

1. Excessive nutrients in a freshwater body causes .....

A. decrease in BOD

B. biomagnification

C. eutrophication

D. increase in DO

**Answer:**



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2. The organic material, constituting the outer hard layer called, the exine of a pollen grain is

.....

A. mannitol

B. chitin

C. hemipectin

D. sporopollenin

**Answer:**



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**3. .... Is the first step of translation in prokaryotes.**

A. Elongation of polypeptide

B. Transfer of amino acid

C. Termination of polypeptide

D. Activation of amino acid

**Answer:**



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4. In his pea plant experiment, Mendel .....  
the  $F_1$  plants.

A. test crossed

B. self-pollinated

C. cross-pollinated

D. back crossed

**Answer:**



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5. The sediment of ..... is called activated sludge.

- A. aeration tank
- B. anaerobic sludge digesters
- C. settling tank
- D. aerobic sludge digesters

**Answer:**



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6. Standing state refers to the amount of biomass present in the soil at any given time.



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7. Vegetative propagation in mint occurs through offset



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8. The haploid microspore is the end cell of male gametophyte.



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9. The Watson-Crick double helical model for DNA suggested that basis for transcribing genetic material is base complementarity.



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10. The term .single cell protein. refers to plants. Which act as a source of mixed proteins.



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## Section A Botany Group B

### 1. Foliose lichen stage



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### 2. Carrying capacity



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### 3. Write short note on: Natural selection





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4. Vegetative propagation by underground stems



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5. Adaptations for wind pollination



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## 6. Transforming principle



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## 7. Polyembryony and Adventive embryony



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## 8. Bell-shaped age pyramid and Urn-shaped age pyramid



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## 9. Synthetic pesticides and Biopesticides



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## Section A Botany Group C

1. Describe the developmental process of the male gametophyte in angiospermic plants.



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2. What is aminoacylation? Enlist the various pre-requisites for initiation step of RNA translation in prokaryotes. Also describe, how the translation process in eukaryotes is different from that of prokaryotes.



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3. Give an account of structure of DNA.



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4. Describe the importance of microbes in production of industrial products.



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## Section B Zoology Group A

1. Write name of any one genetic disorder that can be treated by gene therapy.



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2. Name the chemical compounds that are released by body in response to allergens.



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3. From which part of the spermatid is the cap-like structure called acrosome formed?

A. Nucleus

B. Golgi bodies

C. Mitochondria

D. Ribose

**Answer:**



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4. Surgical removal of both the testes is called.....

A. castration

B. vasectomy

C. tubectomy



D. lobotomy

**Answer:**



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5. The family pedigree of Queen Victoria shows inheritance of

A. colour blindness

B. bleeder's disease

C. phenylketonuria

## D. Thalassemia

**Answer:**



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6. BCG is an inactivated vaccine used against tuberculosis.



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7. ....refers to the mass of cells resulted from uncontrolled growth.



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8. Transmission of ..... Is mainly by oral route, due to intake of cyst contaminated water and food.



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9. .... refers to the phenomenon of the development of a new species from a pre-existing one.



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10. .... Is a parasitic infection which is common in poultry birds.



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

(c) Copper releasing IUDs



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2. What is Southern blotting?



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3. Describe the treatment of AIDS, briefly.



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4. What is the treatment of AIDS?



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5. What products do you get from apiculture?



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6. What do you mean by random genetic drift?



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7. Define Psychotropic and Psychedelic drugs



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8. Morphological and Physiological evidences of evolution.



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## 9. Ascariasis and Filariasis



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## Section B Zoology Group C

1. Write notes on any two of the following:

Protobionts



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2. Write notes on any two of the following:

Superfemales



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3. Write notes on any two of the following:

Prepuce



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4. Write notes on any two of the following:

Mesovarium



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5. Give a detailed description of the process of gametogenesis in both males and females.

Also, mention the differences between spermatogenesis and oogenesis.



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**6.** Describe the role of palindromic sequences in biotechnology.



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**7.** Describe the nomenclature of restriction enzymes.



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