



# BIOLOGY

## BOOKS - ARIHANT PRAKASHAN

### VERY SIMILAR TEST 7

#### Section A Botany Group A

1. The common refrigerant that is responsible for the depletion of stratospheric ozone is

A. CFC

B. NO

C.  $SO_2$

D.  $O_3$

**Answer:**



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**2. In gymnosperms, endosperm is**

A. diploid

B. haploid

C. triploid

D. hexaploid

**Answer:**



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**3.** Transcription is the transfer of genetic code from a DNA molecule to

A. RNA molecule

B. second DNA molecule

C. ribosomal subunit

D. sequence of amino acids in a protein  
molecule

**Answer:**



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**4.** ABO blood group is an example of

A. pseudoalleles

B. isoalleles

C. multiple alleles

D. None of these

**Answer:**



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5. Which of the following serve as biofertiliser in paddy fields?

A. Anabaena

B. Azospirillum

C. Nostoc

D. Both (i) and (iii)

**Answer:**



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6. Correct the statement of each bit if necessary, by changing the underlined word only

Pyramid of energy is always inverted



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7. Correct the statement of each bit if necessary, by changing the underlined word only

Stock is the short piece of detached shoot containing several dormant buds.



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8. Correct the statement of each bit if necessary, by changing the underlined word only

Self- incompatibility due to genotype of sporophyte is gametophytic incompatibility.



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9. Correct the statement of each bit if necessary, by changing the underlined word only



Genetic code is non-ambiguous as more than one triplet codon can specify one amino acid.



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**10.** Correct the statement of each bit if necessary, by changing the underlined word only

The nuclear fusion is induced by Polyethylene Glycol (PEG) or under high voltage electric current.



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## Section A Botany Group B

1. Write notes on any three of the following, each with two to three important points

Gross Primary Productivity



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2. Write notes on any three of the following, each with two to three important points

Limnetic zone



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**3.** Write notes on any three of the following, each with two to three important points

Multiple fission in Plasmodium



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**4.** Write notes on any three of the following, each with two to three important points

Helobial endosperm





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5. Write notes on any three of the following, each with two to three important points

Preparation of culture medium for tissue culture



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6. Write notes on any three of the following, each with two to three important points

Aminoacylation



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7. Differentiate between any one pairs of the following with three to four important points  
Environmental parthenocarpy and Chemically induced parthenocarpy



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8. Differentiate between any one pairs of the following with three to four important points

Expanding age pyramid and Stable age pyramid



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9. Differentiate between any one pairs of the following with three to four important points  
Synthetic seeds and Normal seeds



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1. Write a detailed note on pollen-pistil interaction in flowering plants



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2. Describe Transcription in Prokaryotes?



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3. What would happen if the inducer of the lac operon is absent in the medium where E.coli is

being cultured?



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4. Discuss the role of microbe in energy generation (biogas production).



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**Section B Zoology Group A**



## 1. Fill up the blank

The commercial use of transgenic animals as sources of pharmaceutical product is known as \_\_\_\_\_



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2. An oral dose of drug given for amoebiasis treatment.



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3. LH acts on Sertoli cells stimulating secretion of factors which help in spermatogenesis.

A. GH

B. LH

C. FSH

D. TSH

**Answer:**



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4. Which of the following is not a constituent of chemical contraceptives?

A. Lactic acid

B. Boric acid

C. Malic acid

D. Citric acid

**Answer:**



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5. Which one of the following is a sex-linked disorder?

A. Leukemia

B. Cancer

C. Night blindness

D. Colour blindness

**Answer:**



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6. The drugs depressing the activities of the central nervous system are hallucinogens.



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7. A disease causing agent is called .....



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8. The vaccine used against typhoid fever is

..... .



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9. Connecting link between plants and animals is .....



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10. Correct the statement of each bit, if necessary, by changing the underlined word only:

In tissue culture, amorphous mass of thin-

walled parenchymatous cells developing from proliferating cells is called explant.



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## Section B Zoology Group B

1. What are hallucinogens?



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2. What is Humulin ?



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**3. What is in vitro fertilisation?**



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**4. What is geological time scale?.Discuss geological time scale as evidence of evolution.**



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5. What is a toxoid?



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6. Embryo rescue



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7. Degenerative diseases and Deficiency diseases



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## 8. Chemoautotrophs and Chemoheterotrophs



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## 9. Which is the second line of defense?



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1. Write notes on :



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2. Write notes on any two of the following

Fremartin



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3. Write notes on any two of the following

Embryonic development in humans



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4. Write notes on any two of the following

Semen



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5. Describe the reproductive system in human

female.



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6. Discuss the genetic basis, and treatment of Down's syndrome.



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7. What is polymerase chain reaction



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