

Karnataka Board Class 12 Biology Question Paper

Time Allowed :3 Hours	Maximum Marks :70	Total Questions :44
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General Instructions

Read the following instructions very carefully and strictly follow them:

1. The question paper consists of Parts - A, B, C, D and E.
2. PART-A consists of I and II and Part-D consists of V and VI.
3. All Parts are compulsory.
4. For PART-A questions, only the first written answers will be considered for evaluation.
5. Draw diagrams whenever necessary. Unlabelled diagrams do not attract any marks.
6. PART-E, consists of questions, for Visually Challenged Students only.

PART A

1. In artificial hybridisation approach, if the female parent produces unisexual flowers, there is no need for

- (A) Bagging
- (B) Tagging
- (C) Rebagging
- (D) Emasculation

2. The cells that secrete androgens are

- (A) Sertoli cells
- (B) Leydig cells
- (C) Germ cells
- (D) Spermatogonia

3. Sexually transmitted infection that can be completely curable is

- (A) Gonorrhoea
- (B) Hepatitis-B
- (C) AIDS

(D) Genital herpes

4. Identify the correct match.

- (A) XO - Male grasshopper
 - (B) XX - Male Drosophila
 - (C) ZW - Male bird
 - (D) ZZ - Female bird
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5. Statement I: A nitrogenous base is linked to the -OH of 1'C pentose sugar through N-glycosidic linkage to form a nucleoside.

Statement II: Two nucleosides are linked through 3'-5' phosphodiester linkage to form a dinucleotide.

- (A) Both statement I and statement II are correct
 - (B) Both statement I and statement II are incorrect
 - (C) Statement I is correct, but statement II is incorrect
 - (D) Statement I is incorrect but statement II is correct
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6. Correct sequence of evolution of animal groups according to geological time scale is

- (A) Amphibians - Fishes - Reptiles - Mammals
 - (B) Mammals - Fishes - Reptiles - Amphibians
 - (C) Reptiles - Amphibians - Fishes - Mammals
 - (D) Fishes - Amphibians - Reptiles - Mammals
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7. The molecules trapped in the lymph nodes responsible for the activation of lymphocytes present there and cause the immune response are

- (A) Antibodies
 - (B) Anti-histamines
 - (C) Antigens
 - (D) Interferons
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8. The plants with hallucinogenic properties are

- (A) Atropa and Cannabis
- (B) Datura and Atropa
- (C) Datura and Cannabis

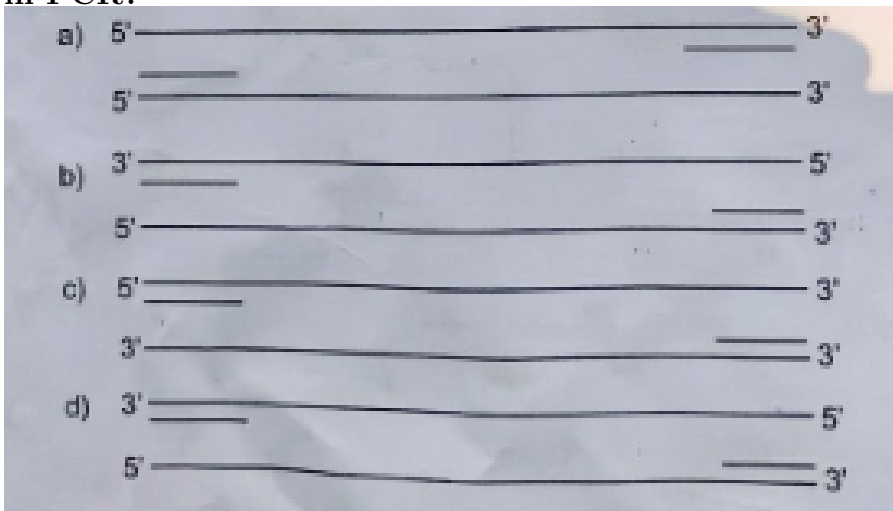
(D) Atropa and Papaver

9. Match the List-I with List-II

List-I	List-II
A. <i>Rhizobium</i>	1. Citric acid
B. <i>Clostridium</i>	2. Gobar gas
C. <i>Aspergillus</i>	3. N_2 fixation symbiotically
D. Methanogens	4. Butyric acid

- (A) A-1, B-2, C-3, D-4
(B) A-2, B-1, C-3, D-4
(C) A-3, B-4, C-1, D-2
(D) A-4, B-2, C-1, D-3
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10. Which of the following is the correct representation of primer annealing step in PCR?



11. Identify the incorrect statement.

- (A) First letter of the restriction enzyme is derived from genus of the bacterium
(B) Second and third letters of the restriction enzyme are derived from species of the bacterium
(C) The fourth letter of the restriction enzyme is derived from the strain of the bacterium
(D) The Roman letter after the strain indicate the Roman origin of bacterium from which the restriction enzyme is isolated
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12. The corn borers are controlled by the protein encoded by the gene

- (A) Cry I Ab

- (B) Cry II Ab
 - (C) Cry IV Ab
 - (D) Cry I Ac
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13. Herbivores in a broad ecological context not very different from

- (A) Commensals
 - (B) Predators
 - (C) Parasites
 - (D) Producers
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14. Dead plant remains such as leaves, bark and flowers constitute

- (A) Debris
 - (B) Humus
 - (C) Detritus
 - (D) Fossil
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15. An estimate of about 7 million global species diversity was made by

- (A) Edward Wilson
 - (B) Robert May
 - (C) David Tilman
 - (D) Paul Ehrlich
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II. Fill in the blanks by choosing the appropriate word/words from those given below :

(650 CC, macrophages, inoculum, animals, 900 CC, colostrum)

16. The initial few days of milk produced after parturition is

17. Homo erectus had a brain size around

18. Human immuno deficiency virus replicates in

19. A small amount of curd added to the fresh milk as

20. Based on currently available species inventories, 70% of species recorded are

PART B

21. Draw a labelled diagram of mature 2-celled pollen grain.

22. How ZIFT is different from IUI?

23. Sketch pedigree symbols for:

- a) Sex unspecified
- b) Mating

24. Mention four properties of a genetic material.
