COMMON QUARTERLY EXAM - 2024

Standard - XII

Time : 3.00 hrs	BIOLOGY	Marks: 70	
	Part - I Bio-Botany	Marks: 3	
	Section - I		

XII BIOLOGY

- 8) Ecology is the study of an individual species is called
 - i) community Ecology ii) Avtecology

iii) species ecology

iv) synecology

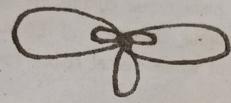
- a) i only
- b) ii only c) i and iv only d) ii and iii only

Section - II

II. Answer any four of the following questions:-

 $4 \times 2 = 8$

- 9) Give the names of the scientists who rediscovered mendelism.
- 10) What do you mean "EMBRYOIDS"
- 11) Draw this diagram and label the parts.



- 12) Mention the names of the enzymes required for Genetic Engineering.
- 13) What is meant by a "Cis configuration"
- 14) What is mellito phily?

Section - III

III. Answer any three of the following questions:

Q.No. 19 is compulsory:

 $3 \times 3 = 9$

- 15) What is genetic mapping? Write its uses.
- 16) Give an account on "Cryopreservation"?
- 17) Differentiate Grafting and Layering
- 18) What are multiple alleles?
- 19) Draw the flowchart for tritical production.

Section - IV

IV. Answer all the questions:-

2×5=10

20) a) Bring out the inheritance of chloroplast gene with an example.

[or]

- b) Discuss the steps involved in microsporogenesis.
- 21) a) Compare the various types of Blotting techniques.

[or]

b) Write the applications of Plant Tissue culture.

XII BIOLOGY

Marks: 35

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Part - II Bio-Zoology

Section - I

I.	Choose	the correct	answer	from t	the options	given below	and
WI	ite the	answer wit	h option	code:-		8×1	.=8

rite	the answer with option of	code:- 8×1=8
1)	The Androgen Binding protein	(ABP) is produced by
	a) Sertoli cells	b) Leydig cells
	c) Pituitary gland	d) Hypothalamus
2)	The condition where the wor	nen do not have functional uterus is
	a) Down's syndrome	b) Mayer-Rokitansky syndrome
	c) Patau's syndrome	d) Tunner's syndrome
3)	The term Biogenesis was coi	ned by
	a) Oparin	b) Thomas Huxley
	c) Haldane	d) Henry Bastian
4)	The total number of nitrogenous	s bases in human genome is estimated
	to be about	20
		on c) 35,000 d) 35 million
5)	Which period was called "Age	
		c) Devonian d) Ordovician
6)	The age of fossils can be de	
	a) Electron microscope	b) Carbon dating
	c) Weighing the fossils	
.7)	The Athlete's foot disease in	
	a) Bacteria b) Fungus	
8)	Spread the cancerous cells t	
	a) Metastasis	b) Oncogenes
	c) Protooncogenes	d) Maligrant neoplasm

(4)

XII BIOLOGY

Section - II

II. Answer any four questions:-

 $4 \times 2 = 8$

- 9) Who are called as secretors?
- 10) Draw a neat labelled diagram of Human ovum.
- (11) What are the risk factors for cervical cancer?
- 12) Write the scientific name of the filarial worm that causes filariasis. and how is this disease transmitted?
- 13) What are Coprolites?
- 14) List out the major gases seems to be found in the primitive earth.

Section - III

III. Answer any three questions. Q.No.19 compulsory: 3×3=9

- 15) What is colostrum? Write its significance.
- 16) List the common withdrawal symptoms of drugs and alcohol abuse
- 17) Mention the symptoms of Phenylketonuria
- 18) State any three goals of Human Genome Project.
- 19) Write a note on Amoebiasis.

Section - IV

IV. Answer the following questions in detail:

2×5=10

- 20) a) Write the different kinds of syngamy prevalent among living organisms. [or]
 - b) Explain the structure of Immunoglobulin with a suitable diagram.
- 21) a) What are the applications of D.N.A. finger printing technique.

[or]

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b) How does Hardy-Weinberg's expression. (P²+2pq+q²=1) explain that genetic equilibrium is maintained in a population? List any four factors that can disturb the genetic equilibrium.
