COMMON QUARTERLY EXAM - 2024

Ygola stv Standard - XII cos vicumoso (

Time: 3.00 hrs BIOLOGY Marks: 70	
Part - I Bio-Botany Marks: 3:)
Section - I	,
**Answer all the questions. 8×1=1	3
1) Size of Pollen grain in myosotis	
a) 10 b) 2000 c) 20 d) 200	
2) Solidifying agent used in plant tissue culture in	
a) Nicotinic acid b) Cobaltous chloride c) EDTA d) Agar	
3) Wheat is the phenotype of wheat kernal colour for the genotype R1R2r2r2	::
a) Dark red b) medium dark red	
c) medium red d) Light red d to some at defivered.	
4) Which of the given plant produces cardial glycosides	
a) Calotropis b) Acacia c) Nepenthy d) Utricularia	
5) Match the following and find the correct answer	
i) Pentasomy - A) 2n-2	
ii) Double monosomy - B) -2n+1	
iii) Nullisomy - C) 2n-1-1	
iv) Trisomy - D) 2n+3	-
a) i-C, ii-D, iii-B, iv-A b) i-B, ii-C, iii-D, iv-A	
c) i-C, ii-B, iii-A, iv-D d) i-D, ii-C, iii-A, iv-B	
6) In which techniques Ethidium Bromide is used	
a) Southern Blotting techniques b) Western Blotting technique	
c) Polymerase chain Reaction d) Agrose gel Electroporosis	,
7) If haploid number in a cell is 18. The double monosomic and trisom	ic
number will be granted to sent success of attention to the	
a) 35 and 37 b) 34 and 35	5.
c) 37 and 35 d) 17 and 19	

XII BIOLOGY (2)8) Ecology is the study of an individual species is called _____ i) community Ecology II) Avtecology iv) synecology iii) species ecology b) ii only c) i and iv only d) ii and iii only a) ionly Section - II $4 \times 2 = 8$ II. Answer any four of the following questions:-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:-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.

b) Write the applications of Plant Tissue culture.

(3)

XII BIOLOGY

Marks: 35

Part - II Bio-Zoology

Section - I
I. Choose the correct answer from the options given below and
write the answer with option code:- $8 \times 1 = 8$
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 women 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 coined by
a) Oparin b) Thomas Huxley
c) Haldane d) Henry Bastian
4) The total number of nitrogenous bases in human genome is estimate
to be about
a) 3.5 million b) 3.0 billion c) 35,000 d) 35 million
5) Which period was called "Age of fishes"?
a) Permian b) Triassic c) Devonian d) Ordovician
6) The age of fossils can be determined by
a) Electron microscope b) Carbon dating
c) Weighing the fossils d) Analysis of bones
7) The Athlete's foot disease in human is called
a) Bacteria b) Fungus c) Virus d) Protozoan
8) Spread the cancerous cells to distant sites is termed as
a) Metastasis b) Oncogenes
d) Maligrant neoplasm

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XII BIOLOGY

Section - II

II. Answer any four questions:-

- 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:

- 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]

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.
