

Half Yearly Examination 2022-23

Class -12th

Subject - Biology

Time :- 3:00 hrs

M.M.70

Instruction

- (1) All question are compulsory
- (2) Q.No 1 to 4 are objective type questions each question carries 7 marks
- (3) Q. 5 to 12 carries 2 marks each
- (4) Q. no 13 to 16 carries 3 marks each
- (5) Q. No 17 carries 4 marks each
- (6) Q. No 18 to 19 carries 5marks each
- (7) Internal choice are given from Q.No 5 to 19

SECTION A

Objective type question

- Q. 1 Choose the correct answer (7)
- (1) When is the used form making bread
(a) Lactobacillus (b) Straptobacillus
(c) Aspergillus (d) S- Cerevisiace
 - (2) What is vector DNA
(a) Breaker of DNA (b) Cutter of DNA
(c) Transfer inDNA in One (d) None of these
 - (3) Hybridomas are
(a) Antobodoes (b) Hybrid swarms
(c) Hybrid cultures (d) Hybrid Zone
 - (4) Rootless plant is
(a) Wolffia (b) Eichhornia
(c) Lemna (d) Jussiaea
 - (5) Plants starting succession in any area are called
(a) Pioneer (b) Sere
(c) Displacer (d) All of these
 - (6) Where is plant fossil National park is situated
(a) Shivpuri (b) Mandala
(c) Bastar (d) Bhopal
 - (7) WHO Terminate the Transcription
(a) Co-Protein (b) Sigma Factor
(c) Raw Protein (d) Omega Factor

Q. 2 Fill in the blanks (7)

- (1) Enzyme is Necessary for transcription
- (2) Genes responsible for cancer are called

- (3)is the meaning of word virus
 (4)Are small sized cloning vectors
 (5) The product of cry-1 Gene is used for
 (6) Respiratory root is found in plant
 (7) The major reservoir of carbon on Earth is

Q. 3 Match the column

(7)

A		B	
1	Azolla	(a)	Pyrite
2	Soil purifier	(b)	BT cotton
3	Cry protein	(c)	Anabaena
4	Forest	(d)	Amphibians
5	Decomposer	(e)	Climax community
6	Jussiaea	(f)	Rhizophora
7	Respiratory roots	(g)	Actinomycetes

Q. 4 Give the answer in one word

(7)

- (1) In which month body hair developed in embryo
 (2) Give an example of linkage
 (3) Name the Gene which is control the activity of other gene
 (4) What is the name of antiviral protein
 (5) What is interferon ?
 (6) Name the molecular scissors
 (7) Write the full name of RNAi ?

SECTION B

5 Human Testes are situated outside the abdominal cavity
 Give reason

(2)

OR

Explain the Ovulation

6 What is Linkage ?

(2)

OR

What is Turner's syndrome ?

7 What is chagaff's rule

(2)

OR

Write the names of enzymes used in DNA replication and write its work

What is meant by metastasis? Explain

(2)

OR

What is B-Cells and T- Cells ? Explain it

- Q. 9 Why does Gangajal in a Bottle Not Spoil for a long time (2)
OR
What is biological oxygen demand
- Q. 10 What is DNA Ligase ? (2)
OR
What is CDNA ?
- Q. 11 Which Vitamin is found in Golden rice (2)
OR
What are Transgenic bacteria
- Q. 12 'How is Diapauses Different from Hibernation (2)
OR
If A marine fish is placed in a fresh water Aquarium will the fish be able to survive ? Why or Why not ? <https://www.mpboardonline.com>
- Q. 13 What is food chain ? Explain with diagram (3)
OR
What is Trophic level ? Explain
- Q.14 What are the Major causes of forest species losses in India (3)
OR
What are sacred groves? what is their role in conservation ?
- Q. 15 Why vaccination is important in immunity ? (3)
OR
What is antigen ? Write its main characteristics?
- Q. 16 Describe briefly PCR with diagram ? (3)
OR
Describe briefly downstream processing with diagram
- Q. 17 Explain the watson crick model of DNA along with labelled diagram(4)
OR
Explain the law of independent assortment with the example of dihybrid cross ?
- Q. 18 Write short notes on (a) Biopiracy (b) Biopatent (5)
OR
What are recombinant DNA technology Give the names of tools in this technology
- Q. 19 What is ecological succession : Write its various steps (5)
OR
What are ecological pyramids explain various types of ecological pyramids