

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 in DNA 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

- 6 Explain the Ovulation
What is Linkage ?

(2)

OR

- 7 What is Turner's syndrome ?
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 Diapause 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 ?
- 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