

$8 \times 1 = 8$ 

- 1) The first cell of male gametophyte in Angiosperm is \_\_\_\_\_.  
a) Microspore                      b) Megaspore  
c) Nucleus                          d) Primary Endosperm Nucleus
- 2) How many different kinds of gametes will be produced by a plant having the genotype AABbCC?  
a) Three                      b) Four                      c) Nine                      d) Two
- 3) Changing the codon AGC to AGA represents \_\_\_\_\_.  
a) Missense Mutation                      b) Non sense mutation  
c) Frameshift Mutation                      d) Deletion Mutation
- 4) ECORI cleaves DNA at \_\_\_\_\_.  
a) AGGGTT                      b) GTAATC                      c) GAATTC                      d) TATAGC
- 5) The Prevention of Large Scale loss of biological integrity \_\_\_\_\_.  
a) Biopatent                      b) Bio Ethics                      c) Bio-Safety                      d) Bio-fuel
- 6) Father of Modern Ecology \_\_\_\_\_.  
a) Alexander Von Humbolt                      b) Eugene P.Odum  
c) R.Misra                      d) Reiter
- 7) Van Mahastav day celebrated on \_\_\_\_\_.  
a) September 16                      b) July 07                      c) March 21                      d) April 22
- 8) Botanical name of Black gram \_\_\_\_\_.  
a) Vigna Mungo                      b) Cajanus Cajan                      c) Vigna radiata                      d) Oryza Sativa

- 9) Any two uses of Black Pepper.
- 10) What is Cantharophily?
- 11) Define Backcross.
- 12) What is meant by shuttle vector?
- 13) What is phytoremediation?
- 14) Define 10% law.

- 15) Differentiate primary and secondary introduction.
- 16) What is meant by cytoplasmic inheritance?
- 17) Advantages any Three Herbicide Tolerant Crops?
- 18) Write short notes on Pollen Kitt.
- 19) Tabulates plant indicators for pollution.

- 20) Explain the following:
- a) What are psychoactive drugs? Add note on Marijuana and Opium. -3
- b) Economic importance of Rice -2

**(OR)**

### Application of Bio technology.

- 21) Bring out the inheritance of Chloroplasts gene with example. -5

(OR)

### Important characters of Anemophilous flowers.

**I. Choose the best answer:**

- 1) SMOG is derived from \_\_\_\_\_  
a) smoke                      b) FOG                      c) Both A & B                      d) Only A
- 2) Which one of the following are at high risk extinction due to habitat destruction \_\_\_\_\_  
a) Mammals                      b) Birds                      c) Amphibians                      d) Echinoderm
- 3) The First Clinical gene therapy was done for the treatment of \_\_\_\_\_  
a) AIDS                      b) Cancer                      c) Cystic fibrosis                      d) SCID
- 4) \_\_\_\_\_ is the Major Producer of Ethanol  
a) Bacteria                      b) Fungi                      c) Yeast                      d) Virus
- 5) \_\_\_\_\_ is the Secondary Lymphoid Organ  
a) Liver                      b) Tonsil                      c) Thymus                      d) Spleen
- 6) The Wings of Birds and butterflies is an example of \_\_\_\_\_  
a) Adaptive Radiation                      b) Analogous Structures  
a) Divergent Evolution                      d) Natural Selection .
- 7) Embryo implantation is occurs at \_\_\_\_\_  
a) Vagina                      b) Fallopian tube                      c) Uterus                      d) Peritoneal Cavity
- 8) \_\_\_\_\_ is hormone releasing IUD  
a) CUT-380A                      b) CU7                      c) Multilode 375                      d) Progestasert

**II. Answer any four questions:**

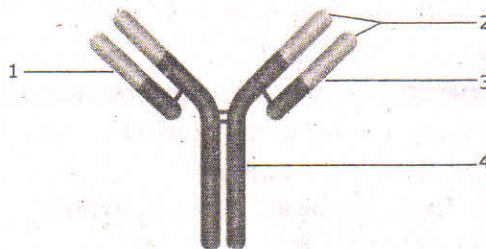
4×2=8

- 9) Define Thelytoky and Amphitoky.
- 10) Expand the following    a) FSH    b) LH    c) hCG    d) hPL
- 11) What is Lyonisation?
- 12) Why tRNA is called an Adapter molecules?
- 13) What is Oenology?
- 14) Differentiate Stenotherms and Eurytherms.

**III. Answer any three questions. Q.No. 19 is compulsory:**

3×3=9

- 15) Explain Von't Hoff's rule.
- 16) What is Acclimatisation?
- 17) Mention the main objections of Darwinism.
- 18) Differentiate Foeticide and Infanticide.
- 19) Identify the Diagram and Write the labelled parts:

**IV. Answer all questions:**

2×5=10

- 20) Explain the Parturition and Lactation.

-5

(OR)

Explain the Marriage between colour blind Man and Normal Women.

-5

- 21) Explain the following:

a] Salient features of mutation theory

-3

b] Somatic cell gene therapy and Germ Line Gene Therapy

-2

(OR)

Analyse of two species population interaction.

-5