

1st TERM EXAMINATION 2022-23

CLASS- XII

SUBJECT- Biology

TIME: 3hrs

Marks- 70

Instruction:-

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

Q.1 : choose the correct answer.

- (1) Sertoli cells are found in (7x1=7)
(a) Kidney (b) ovary (c) liver (d) Testis
- (2) Syncarpous ovary is found in
(a) Mustard (b) Wheat (c) Maize (d) Butter cap
- (3) Amniocentesis is used for determination.
(a) Heart disease (b) Brain disease
(c) Heredities diseases of Embryo (d) all of these
- (4) character which is not seen in first generation is called.
(a) Dominance (b) Recessive (c) special (d) Normal
- (5) Sequece of nitrogenous bases on t-RNA is known as.
(a) Anti Codon (b) Terminating codon
(c) Repressor (d) Initiate codon
- (6) cirrhosis of liver is caused by
(a) Fat (b) Vitamins (c) Tobacco (d) Alcoholism
- (7) Which of these cells are immortal.
(a) Germ cells (b) Liver cells (c) kidney cells (d) Neurons

Q.2 Fill in the blanks.

(7x1=7)

- (i) _____ provides the nutrition to embryo.
- (ii) _____ join DNA segments.
- (iii) Outer membrane of pollen grain is called _____
- (iv) Contraceptive pills stops _____.
- (v) Raffles is a _____ parasitic plants.
- (vi) Coconut water is the example of _____.
- (vii) Asthma is a type of _____.

Q.3 Match the following.

(7x1=7)

- | "A" | | "B" | |
|-------|-----------------|-----|-----------------------|
| (i) | Parthenon carpy | (a) | 44 .XO |
| (ii) | Microspore | (b) | Alexander Fleming |
| (iii) | Acrosome | (c) | Symbiotic association |
| (iv) | Interferon | (d) | Banana |
| (v) | Antibiotic | (e) | pollen grain |
| (vi) | Turner Syndrome | (f) | sperm |
| (vii) | Mycorrhiza | (g) | Antiviral Protein |

Q.4 Answer in one word.

(7x1=7)

- (i) Name the process in which m-RNA made from DNA.
- (ii) Name the outer covering of seed.
- (iii) Name the process in which implantation of embryo in fallopian tube.
- (iv) What is the scientific name of modern man?
- (v) Give full name of HIV.
- (vi) Who discovered Y- chromosome.
- (vii) What is the name of the study of population.

Very short answer type question:

(8x2=16)

Q.5 What is parturition.

OR

What is Dawn's syndrome.

Q.6 What is transcription.

OR

Name any four sedative drug.

Q.7 Explain the social causes of human population growth.

OR

List two essential roles of ribosome during translation.

Q.8 Differentiate between homozygous and heterozygous.

OR

Write to Major function each testis and ovary.

Q.9 Which is the better Mode of reproduction, Sexual and asexual why?

OR

What is the false fruits, give example.

Q.10 What is natural selection. who gave this theory.

OR

What is test cross.

Q.11 Define linkage?

OR

What is DNA replication.

Q.12 Draw the diagram of sperm.

OR

What is poly embryonic.

Short answer type question.

(4x3=12)

Q.13 Describe the post fertilization change in a flower.

OR

What is hybridization. write its types.

Q.14 What is genetic code. Write any features of genetic code.

OR

What is HIV. Write four preventive Methods of AIDS.

Q.15 What are chasmogamous flower. Can Goss- pollination occur in cleistogamous flower. give reason.

OR

Q.16 Explain the law of dominance using a monohybrid cross.

OR

Differentiate between Microsporogenesis and Megasporogenesis

Long answer type question.

(1x4=4)

Q.17 Explain the watson and crick Model od DNA.

OR

Describe structure of ovule with labelled diagram.

Very Long Answer type question.

(2x5=10)

Q.18 Suggest some Methods to assist infertile couple to have children.

OR

Draw the labelled diagram of T.S. Structure of ovary.

Q.19 Mention the advantages of selecting pea plant for experiment by Mendel.

OR

What is DNA finger printing. Mention its application

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