

COMMON FIRST MID TERM TEST - 2023

A

Standard XII

Reg.No.

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BIOLOGY

Time : 1.30 hrs

Part - I

Marks : 50

Bio-Botany (25 marks)

Section - A

I. Choose the correct answer:

5 x 1 = 5

- First cell of male gametophyte in angiosperm is
 - microspore
 - megaspore
 - nucleus
 - primary endosperm nucleus
- Give the example of cleavage polyembryony.
 - orchids
 - balanophora
 - causuarina
 - aristolochia
- In his classic experiments on pea plants, Mendel did not use
 - flowering position
 - seed colour
 - pod length
 - seed shape
- If a homozygous red flowered plant is crossed with a homozygous white flowered plant, then the F_1 off-springs will be
 - half-white flowered
 - half-red flowered
 - all white flowered
 - pink flowered
- Coconut water from tender coconut is
 - fleshy mesocarp
 - endocarp
 - free-nuclear endosperm
 - non-free nuclear endosperm

Section - B

II. Answer any 3 questions.

3 x 2 = 6

- What are the types of Entry of Pollen tube into the ovule?
- What is microsporogenesis?
- Define Locus.
- Write short note on pollen kitt.
- What is back cross?

Section - C

III. Answer any 3 questions. (Q.No.13 is compulsory)

3 x 3 = 9

- Write the uses of bee pollen.
- Draw the diagram of T.S. of mature anther.
- Distinguish Mount Layering and Air Layering.
- What is Atavism? Give example.
- Name the seven contrasting traits of Mendel.

Section - D

IV. Answer in detail.

1 x 5 = 5

- a) What is Parthenocarpy? Add a note on its significance.

(OR)

- Describe Dominant epistasis with an example.

(2)
Part - II

XII Biology

Bio-Zoology (25 marks)

Section - A

I. Choose the correct answer:

5 x 1 = 5

1. In which mode of reproduction variations are seen
a) asexual b) parthenogenesis c) sexual d) both (a) and (b)
2. The site of embryo implantation is the
a) uterus b) peritoneal cavity c) vagina d) fallopian tube
3. A contraceptive pill prevents ovulation by
a) blocking fallopian tube b) inhibiting release of FSH and LH
c) stimulating release of FSH & LH
d) causing immediate degeneration of released ovum
4. ABO blood group in man is controlled by
a) multiple alleles b) lethal genes c) sex linked genes d) y-linked genes
5. A mRNA molecule is produced by
a) replication b) transcription c) duplication d) translation

Section - B

II. Answer any 3 questions.

3 x 2 = 6

6. Which type of reproduction is effective asexual (or) sexual and why?
7. How is polyspermy avoided in humans?
8. What is called ectopic pregnancy?
9. What is Criss-Cross inheritance?
10. State any three goals of the human genome project.

Section - C

III. Answer any 3 questions. (Q.No.13 is compulsory)

3 x 3 = 9

11. What is Plasmotomy? with example.
12. Differentiate spermiogenesis and spermatogenesis.
13. Differentiate tubectomy and vasectomy?
14. Write an applications of Karyotyping.
15. Aminocentesis the foetal sex determination test is banned in our country, is it necessary?

Section - D

IV. Answer in detail.

1 x 5 = 5

16. a) Describe the structure of spermatozoan and draw neat diagram & labelled parts.
(OR)
- b) Explain the allosomal abnormalities in human beings.
