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COMMON FIRST MID TERM TEST - 2023

Standard - XII
BIOLOGY

Reg.No.

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Marks:50

Time: 1.30 hrs.

BIO - BOTANY

Marks:25

I. Choose the correct answer:

5×1=5

- Pollen tube was discovered by
a) J.G. Kolreuter b) G.B. Amici c) E. Strasburger d) E. Hanning
- Coelorrhiza is found in
a) Paddy b) Bean c) pea d) Tridax
- Identify the wrong pair:
a) Epiphyllous buds - Bryophyllum
b) Terror of Bengal - Chrysanthemum
c) Pollinium - Microspores
d) Embryo sac - Female gametophyte
- "Gametes are never hybrid". This is a statement of
a) Law of dominance b) Law of independent assortment
c) Law of segregation d) Law of random fertilization
- The genes controlling the seven pea characters studied by Mendel are known to located on how many different chromosomes?
a) Seven b) Six c) Five d) Four

II. Answer any three of the following questions in one or two sentences. 3×2=6

- What is Cantherophily.
- What is Pollen kitt?
- What are the reasons for Mendel's successes in his breeding experiment?
- Define Genetics?

III. Answer briefly to any three of the following questions.

3×3=9

- List out the functions of tapetum.
- Write short notes :
i) Double fertilization iii) Triple fusion
- Name the seven contrasting traits of Mendel.
- What is meant by cytoplasmic inheritance?

IV. Write Detailed answer for the following questions:

1×5=5

- Describe the structure of Ovule with diagram.

(OR)

Describe dominant epitasis with an example.

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2

XII - BIOLOGY

BIO - ZOOLOGY**Marks:25****PART - I****I. Answer all the questions:****5×1=5**

- In which type of Parthenogenesis are only Females produced?
a) Arrhenotoky b) Thelytoky c) Amphitoky d) Both 'a' and 'b'
- After 72 hours of Fertilization a loose collection of cells forms a berry shaped cluster of 16 (or) more cells called the _____.
a) Blastula b) Morula c) Gastrula d) All the above
- The Androgen - Binding protein (ABP) produced by _____.
a) Leydig cell b) Hypothalamus c) Sertoli cells d) Pituitary gland
- A Hand held _____ device is often used during prenatal visits to count the foetal heart rate.
a) Doppler b) Foetoscope
c) Chorionic villus sampling d) Sphygmomanometer
- ZW - ZZ system of sex determination occurs in
a) Fishes b) Reptiles c) Birds d) All of these

PART - II**II. Answer any three of the following:****3×2=6**

- What is Plasto motomy? Give an example.
- Draw a labelled sketch of a Spermatozoan.
- What is amniocentesis? Why a statutory ban is imposed on this technique?
- Mention the symptoms of downsyndrome.
- What is multiple alleles? Give an example.

PART - III**III. Answer any three of the following (Q.No.14 is compulsory):****3×3=9**

- Differentiate Endogeneous budding and Exogeneous budding.
- What is Inhibin? State its functions.
- What is Menstrual cycle?
- Differentiate GIFT and ZIFT.
- Explain 'POCSO' Act.

PART - IV**IV. Answer in detail:****1×5=5**

- a) Write about the Female reproductive organ where Implanation takes place.
(OR)
b) a) Explain the steps involved in preparation of Karyotype.
b) What are the application of Karyotyping.

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