

Tsi12Bio

2

BIO - ZOOLOGY (Mark : 35)**Section - I****8x1=8****I. Choose the correct answer:**

- In which type of parthenogenesis are only males produced?
a) Arrhenotoky b) Thelytoky c) Amphitoky d) Both a and b
- The male sex hormone testosterone is secreted from
a) Sertoli cells b) Leydig cells
c) Epididymis d) Prostate gland
- A contraceptive pill prevents ovulation by
a) blocking fallopian tube
b) Inhibiting release of FSH and LH
c) Stimulating release of FSH and LH
d) causing immediate degeneration of released ovum.
- Phenylalanine hydroxylase gene is located on
a) Chromosome 11 b) Chromosome 12
c) Chromosome 16 d) Chromosome 9
- The total number of nitrogenous bases in human genome is estimated to be about
a) 3.5 million b) 35000 c) 35 million d) 3.1 billion
- Which period was called "Age of fishes"?
a) Permian b) Triassic c) Devonian d) Ordovician
- Helper T cells release a chemical called
a) Histamine b) Serotonin c) Lysozyme d) Cytokine
- CO₂ is not released during
a) Alcoholic fermentation b) Lactate Fermentation
c) Aerobic respiration in animals. d) Aerobic respiration in plants

Section - II**4x2=8****II. Answer the followings each carries 2 marks: (only 4)**

- What is meant by somatogenic or blastogenic reproduction?
- What is Cryptorchism?
- What is Mayer - Rokitansky syndrome?
- What are holandric genes?
- Why is tRNA called an adapter molecule?
- Write the symptoms of Chikungunya.

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Section - III**3x3=9****III. Answer any 3 each carries 3 marks. (Q.No. 19 is compulsory)**

- Write the functions of reproductive system.
- Write a note on Cryopreservation.
- Differentiate - Template strand and coding strand.
- Define Antibiotics, Zymology and Superbug.
- What is haplodiploidy?

Section - IV**2x5=10****IV. Answer in detail each carries 5 marks.**

- Explain the various phases of the menstrual cycle.

(OR)

Explain how the colour blindness is transferred in the marriage between colour blind man and normal visioned woman?

- Explain the origin and evolution of man.

(OR)

Mention any 5 bacterial diseases in human beings with the causative agents and symptoms.
