

SETHU BHASKARA MATRIC HR SEC SCHOOL.HALF-YEARLY EXAMINATIONBIO-ZOOLOGY ANSWER KEYClass :- XI

Total Marks :- 35

SECTION-I

Choose the most suitable answer :-

(8x1=8)

1. B - Probiotic.
2. B - Tight Junction - Leakage of Cellular Components.
3. C - 1 (iv) 2 (iii) 3 (i) 4 (ii).
4. B - Plasma with fibrinogen is called Serum.
5. D - Assertion is wrong but Reason is correct.
6. D - 1 and 3 are correct, 2 is wrong.
7. A - He suffer from low blood pressure and dehydration.
8. B - Insulin.

SECTION-II

Answer any four questions.

9. (i) Methane Producing archae is called Methanogen.

2 marks.

10. Adipocytes - (i) Adipose tissue is also known as adipocytes.
 (ii) It is similar to areolar tissue
 (iii) Located beneath the skin. It constitute 90% of tissue mass.

2 Marks.

11. Vermicompost - It is the Compost Produced by the action of earthworm in association with all other organisms in the Compost unit.

2 Mark.

12. (i) 97% of O₂ binds with RBC readily than in dissolved form because O₂ is poorly soluble in water [only 3%].

2 Mark

13. Diagram

2 mark.

14. Melatonin - (i) Melatonin Plays a Central role the regulation of Circadian rhythm.
 (ii) Maintains the normal sleep wake cycle.
 (iii) Regulates the timing of Sexual Maturation of gonads.
 (iv) Influences in metabolism, Pigmentation, menstrual cycle and defence mechanism of our body.

3 Mark.

15. Erythroblastosis foetalis: SECTION - C

(i) Yes. A Small amount of foetal antigens become exposed to the mother's blood during the birth of the first child. The mother's blood starts to synthesize D- antibodies which enter during subsequent Pregnancies. Enters into the Circulation of the foetus and destroy the foetal RBC

3 Mark

16. Composition of Sebum :-

- (i) Sterols
- (ii) Hydrocarbons.
- (iii) Waxes.

2 mark

17. Mean arterial Pressure - Orthostatic reflex normally

trigger baroreceptor reflex. This result in increased Cardiac output and increased the Peripheral resistance which together increase the mean arterial Pressure.

2 mark.

18. Functions of CSF :-

- (i) Provides buoyancy to CNS.
- (ii) Act as shock absorber.
- (iii) It nourishes the brain cell by transporting constant supply of food and O_2 .
- (iv) Carries harmful metabolic waste from brain.
- (v) Maintain the constant Pressure inside the Cranial vessels.

3 mark.

19. Pelvic girdle adaptation for Conception :-

- (i) It is wide and flexible in nature

SECTION - IV

Answer all the questions :-

1 mark

20. (i) Description of notochord.

(ii) Description of dorsal tubular nerve cord.

1 mark

(iii) Pharyngeal gill slit.

2 mark

(iv) Diagram.

1 mark

(OR)

(i) Introduction

(ii) Proteolytic enzymes Present in Pancreatic Juice act on Proteins.

(iii) Trypsin hydrolyses Proteins into Polypeptides and Peptides.

5 marks.

(iv) Chymotrypsin hydrolyses Peptides bond associated with Specific amino acid.

21. Functions of Skeletal System :-

(i) Support .

(ii) Shape .

(iii) Protection

(iv) Act as reservoir.

(v) Locomotion .

(vi) Strength

(vii) As a haemopoietic Produce blood cells.

(OR)

(i) Addison's disease - hyposecretion of glucocorticoids.
- Symptoms.

2½ marks

(ii) Cushing's Syndrome - Excess secretion of Cortisol.
- Symptoms.

2½ marks.

Signature of subject handling teachers.

1. M. J. ...

2. 

3. M.S. ...

3. ...