



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – January 2021

V Semester

Class : III UG
Major : Zoology

Time : 3 Hours
Max. Marks : 100

18BZOC15 Animal Physiology

Part A

10 x 1 = 10

Choose the Correct Answer

- Rickets may arise in children that do not receive sufficient:
a. Vitamin D
b. B group vitamins
c. Vitamin C
d. Vitamin A
- Secretion of gastric juice is controlled by
a. Enterogastrone
b. Cholecystokinin
c. Gastrin
d. Pepsin
- The trachea divides into two smaller tubes called
a. Trachea
b. Bronchi
c. Microtrachea
d. Eustachian tubes
- During blood coagulation, thromboplastin is released by
a. Leucocytes
b. Blood plasma
c. RBC
d. Clumped platelets and damaged tissues
- Ability of the kidneys for the production of concentrated urine is dependent on
a. Active transport
b. Passive transport
c. Diffusion
d. Counter current mechanism
- The vagus nerve regulates major elements of which part of the nervous system?
a. Parasympathetic nervous system
b. Enteric nervous system
c. Sympathetic nervous system
d. Central nervous system
- Each skeletal muscle fiber is controlled by a neuron at a single
a. Synaptic knob
b. Neuromuscular junction
c. Transverse tubule
d. Sarcomere
- Which of the following decreases in length during the contraction of a skeletal muscle fiber?
a. A band of the sarcomere
b. I band of the sarcomere
c. Thick filaments
d. Thin filaments
- Infants born to mothers who are vegan may be at increased risk of deficiency of which nutrient?
a. Vitamin C
b. Folate
c. Vitamin B12
d. Calcium
- Which of these hormones is made by the posterior pituitary ?
a. ACTH
b. LH
c. FSH
d. ADH

Part B
Answer ALL questions

5 x 6 = 30

Each answer should not exceed 400 words or two pages

- 11.a. Enlist the scope of animal physiology.
(or)
11.b. Explain the process of protein digestion.
- 12.a. Write a note on respiratory pigments.
(or)
12.b. Explain the properties of heart muscle.
- 13.a. Write about the excretory organs and products of animals.
(or)
13.b. Explain the structure of neuron with neat diagram.
- 14.a. Write in detail about the photoreceptors.
(or)
14.b. Add an account on the contraction of muscle.
- 15.a. Give a detailed account on hormones in reproduction.
(or)
15.b. Write a note on adrenal gland and its hormone.

Part C
Answer ALL questions

5 x 12 = 60

Each answer should not exceed 800 words or four pages

- 16.a. Give an elaborate account on the types of nutrition.
(or)
16.b. Describe in detail about digestion and absorption of carbohydrates in mammal.
- 17.a. Discuss in detail about the mechanism of transport of gases.
(or)
17.b. Narrate the structure of heart and demonstrate the blood circulation.
- 18.a. Explain the process of urine formation.
(or)
18.b. Write the detailed notes on the conduction of nerve impulses.
- 19.a. Give a detailed account on the mechanoreceptor.
(or)
19.b. Discuss about the structure and properties of skeletal muscles.
- 20.a. Describe in detail about the sexual cycles in mammal.
(or)
20.b. Explain in detail the structure and functions of pituitary gland.
