

**Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore-641043
Bachelor's Degree Examination – November 2017**

V Semester

**Class : III UG
Major : Zoology**

**Time : 3 Hrs
Max.Marks : 100**

15BZOC15 Animal Physiology

Part – A

10x1=10

Choose the correct answer

1. Digestion of fats produces -----
 - a. 3 molecules of fatty acids & one molecule of glycerol
 - b. 2 molecules of fatty acids & two molecule of glycerol
 - c. one molecule of fatty acids & three molecules of glycerol
 - d. four molecules of fatty acids

2. Of the phospholipids, those present in the brain are -----
 - a. lecithin
 - b. cephalin
 - c. plasmalogen
 - d. sphingomyelin

3. The liberation of CO₂ during anaerobic respiration is to reduce the acidity is tissue due to accumulation of -----
 - a. lactic acid
 - b. pyruvic acid
 - c. succinic acid
 - d. exaloacetic acid

4. The left auriculoventricular aperture is guarded by -----
 - a. bicuspidi value
 - b. spiral value
 - c. tricuspid value
 - d. semilunar value

5. The hormone secreted to response to stress dehydration is -----
 - a. oxytocin
 - b. vasopresin
 - c. cathepsin
 - d. aldosterone

6. The parasympathetic nerve fibres cause -----
 - a. diletion of pupil
 - b. constriction of blood vessel
 - c. constriction of bronchi
 - d. inhibition of gastric gland

7. Riger mortis is caused by loss of -----
 - a. ATP
 - b. actin
 - c. myosin
 - d. trypsin

8. The sensory patch present in the ampulla of ear is called as -----
 - a. utriculus
 - b. sacculus
 - c. cristae
 - d. macula

9. The formation of corpus luteum is stimulated by -----
 - a. FSH
 - b. LH
 - c. estrogen
 - d. progesterone

10. The diagnosis of pregnancy is done by testing for the presence of ----- in urine.
 - a. estrogen
 - b. FSH
 - c. LH
 - d. choritonic gonadotropin

Part – B

5x6=30

Answer the following

Answer should not exceed 400 words or two pages

11. a. What is balanced diet? Explain.
(or)
11. b. Give the classification of food.
12. a. State the salient features of respiratory pigments and write about the important respiratory pigments.
(or)
12. b. Describe the structure of a nephron.
13. a. Give a detail account on the composition and functions of blood.
(or)
13. b. What is a synapse? Explain its structure and types.
14. a. Discuss about the rheoreceptors.
(or)
14. b. Describe the structure of striated muscle.
15. a. Explain about the types of biological rhythms.
(or)
15. b. Give an account of the adrenal gland and its hormones.

Part – C

5x12=60

Answer the following

Answer should not exceed 800 words or 4 pages

16. a. Discuss the role of enzymes in digestion of food components.
(or)
16. b. Enumerate the various vitamins and diseases caused by their deficiency in man.
17. a. Describe the transport of gases during respiration.
(or)
17. b. Give an account of heart beat, its origin and conduction with regulation.
18. a. Explain the process of conduction of nerve impulse in myelinated and non-myelinated nerves.
(or)
18. b. Detail the process of urine formation and hormonal regulation of it.
19. a. How does placenta function as an endocrine gland during pregnancy.
(or)
19. b. Write an essay on the male reproductive system of man.
20. a. Discuss about the physico chemical changes during muscular contraction.
(or)
20. b. Elaborate the structure of ear and its mechanism of action.