

**Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore-641 043**

Bachelor's Degree Examination – November 2017

III Semester

Class : II UG

Major : Food Service Management and Dietetics

Time :3 hours

Max. Marks: 10

14/15BFDCO9 Physiology

Part-A

10 x 1=10

Choose the correct answer

1. The blood clot is made up of mesh work of sticky threads that hold blood cells is called
a. Lysin b. Leptin c. Pectin d. Fibrin
2. Pernicious anaemia occurs due to
a. Haematinic principle Deficiency b. Increased RBC count
c. Iron Deficiency d. Rapid destruction of RBCs
3. Each cardiac cycle takes ----- seconds
a. 0.6 b. 0.7 c. 0.8 d. 0.9
4. Normal heart rate of an adult per minute is
a. 62 b. 72 c. 82 d. 92
5. Parietal cells secrete
a. Mucus b. Pepsinogen c. Hydrochloric acid d. Gastric juice
6. The end products of protein digestion are -----
a. aminoacids b. glucose c. maltose d. fatty acids
7. The quantity of air taken in and given out at each normal quiet inspiration and expiration respectively is referred as
a. Tidel volume b. residual volume c. inspiratory reserve volume
d. expiratory reserve volume
8. Ammoniogenesis means exchange of
a. Na ion for H ions b. Na ions for NH₃ c. Na ions for PO₄
d. Na ions for HCO₃
9. Proliferative phase of menstruation includes
a. Upto 4th day b. 5th to 14th days c. 15th to 20th days d. 21st to 28th days
10. Anterior pituitary secretes the following except
a. TSH b. ACTH c. Prolactin d. Oxytocin

Part B

5 X 6=30

Answer the following

Answer should not exceed 400 words or two pages

11. a. Give the functions of blood
(or)
- 11.b. Enumerate the steps of thrombopoiesis

: 2 :

12. a. Give a note on blood groups
(or)
12. b. Enlist the physiological variations that alter heart rate?
13. a. Outline the functions of liver
(or)
13. b. Bring out the steps involved in the digestion of fats.
14. a. Draw the structure of the upper respiratory tract
(or)
14. b. Write on urine formation
15. a . List the functions of parathyroid hormone
(or)
15. b . Explain the structure of mammary gland

Part C

5 x 12=60

Answer the following

Answer should not exceed 800 words or four pages

16. a. Elaborate on blood coagulation.
(or)
16. b . Discuss the various types of blood cells and their functions.
- 17 .a. Explain the factors that maintain blood pressure.
(or)
17 .b. Define cardiac cycle and explain the various events in that diagrammatically.
18. a. Describe the digestion and absorption of carbohydrates.
(or)
18. b. Explain the process of digestion and absorption of proteins.
19. a. Write on the mechanism of breathing.
(or)
19. b. Draw and explain the structure of kidney and nephron.
20. a. Discuss about the physiological changes in pregnancy.
(or)
20. b. Enumerate and explain the functions of insulin and glucagon.
