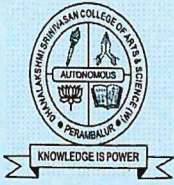


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**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**

(For Candidates admitted from 2020-2021 onwards)



UG DEGREE EXAMINATIONS APRIL – 2021

**B.SC - BIOCHEMISTRY
HUMAN PHYSIOLOGY**

Time: 3 Hrs

Max.Marks: 75

PART – A

CHOOSE THE CORRECT ANSWER

(10X1= 10)

1. _____ is a type of transcellular fluid.
a) Lymph b) Serum c) CSF d) None of the above
2. _____ Blood group is act as universal donor.
a) A b) B c) AB d) O
3. In Bicuspid valve is also called as _____.
a) Arterioventricular Valve b) Semilunar valve
c) Mitral valve d) Ventricular valve
4. _____ is the watch dog of respiratory passage.
a) Nose b) Larynx c) Pharynx d) Nasopharynx
5. A typical neuron has a resting membrane potential of _____.
a) About +70 mv b) About +70 v c) About -70 mv d) About -70v
6. Except _____ all are inhibitory neurotransmitter.
a) Acetylcholine b) GABA c) Serotonin d) Endorphins
7. _____ is the site where maximum chemical digestion is carried out.
a) Stomach b) Pancreas c) Small intestine d) Large intestine
8. Which of the following dietary carbohydrate are not hydrolyzed by the digestive enzymes?
a) Glycogen b) Starch c) Lactose & sucrose d) Cellulose
9. The cone shaped tissue masses in the renal medulla is called _____.
a) Renal pyramids b) Renal columns c) Renal pelvis d) Calyces
10. Among the following _____ is not at all reabsorbed by the kidney?
a) Water b) Uric acid c) Creatinine d) NaCl

PART - B

ANSWER ALL THE QUESTIONS

(5X7= 35)

11. a) Write the composition and functions of lymph.

(OR)

b) Give a brief account on erythropoiesis.

12. a) Illustrate the structure and functions of heart with neat diagram.

(OR)

b) Describe the role of lungs in acid - base balance.

13. a) Explain the chemical composition and functions of cerebrospinal fluid.

(OR)

b) Discuss the role of endorphins and enkephalins.

14. a) List the compositions and functions of saliva.

(OR)

b) Clarify on absorption in large intestine.

15. a) Report the functions of Kidney.

(OR)

b) Give the normal and abnormal composition of urine.

PART - C

ANSWER ANY THREE QUESTIONS

(3X10=30)

16. Write brief notes on classification and functions of White blood cells.

17. Illustrate the events of cardiac cycle and explain.

18. Account on neurotransmitters.

19. Elucidate how carbohydrates are digested and absorbed in the GI tract.

20. Give a detailed account on the role of kidney in regulating acid - base balance.