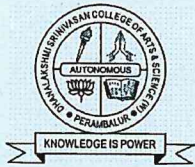


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**DHANALAKSHMI SRINIVASAN COLLEGE
OF ARTS & SCIENCE FOR WOMEN
(AUTONOMOUS)**

(For Candidates admitted from 2018-2019 onwards)



UG DEGREE EXAMINATIONS APRIL – 2021

**B.SC – BIOCHEMISTRY
CLINICAL BIOCHEMISTRY**

Time: 3 Hrs

Max.Marks: 75

PART - A

CHOOSE THE CORRECT ANSWER

(10X1=10)

1. The patients of sickle- cell anemia are resistant to
 - a) Malaria
 - b) Filaria
 - c) Diabetes
 - d) Trypanosomiasis
2. The characteristic red colour of hemoglobin is due to
 - a) Heme
 - b) alpha globin
 - c) Betaglobin
 - d) All of them
3. In adipose tissue less glycerol -3- phosphate is formed of
 - a) Diabetes mellitus
 - b) Gout
 - c) Heart failure
 - d) Renal failure
4. Reabsorption of Na:
 - a) Takes place in association with and CL- HCO₃
 - b) Water
 - c) potassium
 - d) Renal failure
5. The synthesis of urea occurs in
 - a) Kidney
 - b) Liver
 - c) Brain
 - d) muscle
6. Name the enzyme associated with hyperuremia
 - a) PRRP synthetase
 - b) HGPRT
 - c) Glucose 6 phosphate
 - d) All of them.
7. The metabolic water is derived by the oxidation
 - a) Carbohydrate
 - b) Protein
 - c) Fat
 - d) All of them
8. This due to the low molecular weight protein loss in urine
 - a) Proteinuria
 - b) Alkaptonuria
 - c) cystinuria
 - d) polyuria
9. The lipoprotein possessing the highest quantity of phospholipids
 - a) HDL
 - b) LDL
 - c) VLDL
 - d) Chylomicrons
10. Which of the following inhibits acetyl CoA carboxylase- a rate-limiting enzyme of fatty metabolism?
 - a) Citrate
 - b) ATP
 - c) Malonyl CoA
 - d) Acyl CoA

PART – B

ANSWER ALL THE QUESTIONS

(5X7=35)

11. a) Give an account on haemophilia.

(OR)

b) Write a short on blood groups.

12. a) Explain briefly about liver function test.

(OR)

b) Briefly explain disorders of body fluids.

13. a) Discuss fructosuria.

(OR)

b) Explain hyperglycemia

14. a) Give a short on phenylketonuria.

(OR)

b) Write note on Wilsons disease.

15. a) Explain about plasma lipoproteins.

(OR)

b) Explain the etiology and consequence of atherosclerosis.

PART – C

ANSWER ANY THREE QUESTIONS

(3X10=30)

16. Discuss in detail about porphyria.

17. Define jaundice and their types.

18. Analyse the complications of diabetes mellitus.

19. Give an account on Gout and explain their types.

20. Explain about hyperlipoproteinemia.