

D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1.

III B.Sc Biochemistry

Semester : VI

Title of the paper: Clinical Biochemistry

Subject Code : 15CBC6E

SECTION-A 2 MARKS

1. What are specimens
2. What are Anticoagulants? Give example?
3. List out the importance of preservatives used to preserve specimen?
4. Define blood?
5. What are pre analytical variables?
6. Define Quality?
7. Define Quality assurance?
8. What is the normal level of glucose in Blood?
9. Define Hypoglycemia?
10. What is Hyperglycemia?
11. Difference Hypo and Hyperglycemia?
12. Define Diabetes Mellitus?
13. What are the types of Diabetes Mellitus
14. Add a note on glycosuria?
15. Write short notes on galactosemia?
16. What is Fructosuria?
17. What is Ketonuria?
18. What is Ketosis?
19. What is Pompe's Disease?
20. Add a note on Von-gierke's Disease?
21. Name the enzyme deficient in Mac Ardle's Disease?
22. Write the clinical features of Anderson's disease?
23. Define Phenylketonuria?
24. What is cystinuria?
25. Add a note on Alkaptonuria?

26. What are types of Tyrosinemia?
27. Name the enzyme deficient in Fanconi's syndrome
28. What is Albinism?
29. What are the types of Hemophilia?
30. What is Hypouricemia?
31. Write a normal level of Urea in Blood?
32. Define Hyperuricemia?
33. Add a note on gout?
34. What is fatty liver?
35. What is the normal level of cholesterol in Blood?
36. What is Hypocholesterolemia?
37. Define Isoenzymes?
38. What are the Isoenzyme forms of LDH?
39. Name the enzyme which is elevated during Myocardial infarction?
40. What is the normal level of Bilirubin in Blood?
41. What are the conjugate and unconjugate Bilirubin
42. Define Icteric Index
43. Define -PT
44. Add a note on Vandenberg test
45. What are plasma proteins? Write its function?
46. Define clearance test?
47. Define Inulin clearance test?
48. Add a note on Dilution and concentration test?

SECTION-B 5 MARKS

1. What are the things to be noted for setting up of a clinical laboratory?
2. Explain the various procedures for collection of Blood sample?
3. Add a note on collection procedures of urine sample?
4. Write the clinical importance of feces?
5. Explain the uses of Anticoagulants and its types?
6. What are preservatives? Explain with example?
7. Write short notes on transport of specimen
8. Explain how the Blood sugar level is regulated
9. Write short notes on Hypo and Hyperglycemia

10. Explain Diabetes Mellitus and its type?
11. What are the clinical features of Diabetes Mellitus
12. Explain Glycosuria? And its types?
13. Explain Galactosemia and its clinical features?
14. Explain Glycogen storage Disease?
15. What are the symptoms of Ketosis
16. What are the clinical features of Fructosuria?
17. Explain the aetiology of Ketonuria?
18. What are the symptoms of Ketosis?
19. Explain the types of Phynylketonuria?
20. Add a note on cysteinuria
21. Write a short note on Alkaptonuria?
22. What are the different types of Tyrosinemia
23. Explain the clinical significance of Fanconi's syndrome
24. Write about Albinism?
25. What is hemophilia? Explain its types?
26. Differentiate Hypo and Hyperuricemia
27. Explain Gout and its types?
28. Write short notes on Hyperuricemia?
29. Explain the clinical features of Atherosclerosis
30. Differentiate Hypo and Hyper Cholesterolemia
31. Explain the enzyme pattern in Liver damage
32. Write short notes on acute pancreatitis?
33. Explain the factors affecting blood cholesterol level
34. Explain Bilirubin metabolism?
35. Explain Jaundice and its types?
36. Describe Urea clearance test?
37. Write short notes on insulin clearance test?
38. Explain PHA test?
39. Explain creatinine clearance test?

SECTION-C 10 MARKS

1. Explain the variables procedure for collection of Biological samples in clinical laboratory?
2. Write short notes on i) Anticoagulants (5) ii) Preservatives (5)
3. Elaborate i) Regulation of Blood sugar (5) ii) Hypo and Hyperglycemia (5)
4. Explain the types and clinical features of Diabetes Mellitus
5. Write short notes on i) Glycogen storage disease (5) ii) Ketosis and Ketonuria (5)
6. Elaborate the clinical manifestation of phenyl ketonuria and its types?
7. Explain i) Cystinuria (5) ii) Alkaptonuria (5).
8. Explain the aetiology, clinical significance and types of Tyrosinemia
9. Add a note on i) Hypoglycemia (5) ii) Hyperglycemia (5)
10. Describe Haemophilia and its types?
11. Add a note on i) Albinism (5) ii) Fanconi's syndrome (5)
12. Explain the aetiology clinical significance and types of Gout?
13. Elaborate i) Hypocholesterolemia (5) ii) Hypercholesterolemia (5)
14. Explain Atherosclerosis and factors affecting blood cholesterol level
15. Justify CPK is an Isoenzyme
16. Elaborate the enzyme patterns in Muscle wasting
17. Explain the enzyme pattern in Bone disorder?
18. Explain type, clinical manifestation and diagnosis of Jaundice
19. Explain the clinical significance in change in plasma protein
20. Explain liver function test
21. Explain Renal functional test