

List of Model Justification For First Internal

General

1. Oral rehydration solution is made up of glucose and sodium both.
2. Hyperkalemia can occur in Metabolic acidosis.
3. Proteolytic enzymes are released in zymogen form.
4. "TCA cycle is amphibolic in nature"

Carbohydrate Chemistry

5. Glycerol is used in enema.
6. Structure of proteoglycan is well suited for its function.
7. Human can not digest cellulose.
8. Sucrose is non- reducing.
9. Sucrose is called "invert sugar".
10. Dextran is used as plasma volume expander.
11. Hyaluronidase is called as spreading factor.

Carbohydrate Metabolism

12. In acute myocardial infarction, there is elevation of lactic acid in cardiac myocyte.
13. Lactase enzyme deficiency cause diarrhea after milk ingestion.
14. Pancreatitis leads to steatorrhea.
15. G6PD deficiency causes hemolysis
16. Primaquine administration in G6PD deficient patient can precipitate Hemolytic anaemia.

Diabetes Mellitus

17. Uncontrolled diabetes mellitus leads to neuropathy and retinopathy.
18. Acarbose is used in treatment of diabetes mellitus.
19. Diabetic patients are more prone to Atherosclerotic disease.
20. Insulin is use to correct hyperkalemia.
21. Patient of IDDM have more risk of diabetic ketocidosis than NIDDM.
22. Cataract is more common in diabetes mellitus.
23. Estimation of C-Peptide is better parameter to differentiate IDDM & NIDDM.
24. For esimation of blood sugar, blood is collected in flouride bulb.

Lipid Chemistry

25. Eicosanoids are not true hormone.
26. The inhibition of COX-1 can be overcome in endothelial cells but not in platelets while patient is taking low dose Aspirin.
27. Anti-inflammatory action of aspirin is reversible, but anti-platelet action is irreversible.
28. Linoleic acid and linolenic acid are essential fatty acids.
29. Unsaturated cis-fatty acids decrease fluidity of membrane.
30. Pre-mature baby can suffer from Acute Respiratory Distress Syndrome.
31. Heparin is known as clearing factor
32. Bile salts are detected in the urine of obstructed jaundice.

Lipid Metabolism

33. Oxidized LDL is important in pathogenesis of atherosclerosis.
34. In cystic fibrosis, malabsorption of long chain fatty acid occurs, but not short chain and medium chain fatty acids.
35. LDL is metabolized via the LDL receptor.
36. Liver plays a central role in lipid transport & metabolism.
37. HDL is involved in "Reverse Cholesterol Transport"
38. Deficiency of lipoprotein lipase results in hypertriglyceridemia
39. Cystic fibrosis causes deficiency of lipid soluble vitamin.
40. Lingual lipase is important in lipid digestion in neonate.
41. Orlistat (pancreatic and hepatic lipase inhibitor) treatment is supplemented with lipid soluble vitamins.
42. In a patient with lipoprotein lipase deficiency, creamy layer is seen on the top of serum.
43. High HDL level decreases risk of coronary heart disease.
44. LDL increases risk of atherosclerosis.
45. Snake bite causes severe haemolysis of RBCs.
46. Carnitine deficient are advised to take diet, containing medium chain fatty acid.
47. Carnitine deficient can suffer from severe hypoglycemia.
48. Orlistat is used as Anti-Obesity agent.
49. Explain "Statin is used in treatment of hypercholesterolemia"

Protein & Amino acid

50. HbS moves slower than HbA in alkaline gel electrophoresis.
51. Histidine & Arginine are semi-essential amino acids.
52. Zwitter ions have no mobility in electrical field.

53. Zwitter ions has minimum buffering & solubility capacity
54. Ammonia is toxic to brain.
55. Albumin/Globulin ratio is reversed in liver disease.
56. Hepatic failure leads to coma.
57. Peptide bond is called semi double bond.
58. Glycine is optically inactive.
59. Creatine is use to improve athletic performance.
60. Proline does not allow to form alpha helix.

Enzyme

61. "CK-MB is more significant marker than LDH & S.GOT for diagnosis of Myocardial infarction" explain it.
62. Sudden withdrawal of statin drugs can cause hypercholesterolemia.
63. Aspirin cause suicide inhibition.
64. Ethanol is use as antidote in methanol poisoning.
65. Explain "Allopurinol use in gouty arthritis"

Nutrition & Vitamins

66. Vitamin- D deficiency does not cause Tetany.
67. Oral iron tablets are advised to take along with glass of lemon water.
68. A single intramuscular dose of Vitamin K is given to All newborns.
69. Folic acid and Vitamin b12 are given together in treatment of megaloblastic anemia
70. Oedema occurs in Kwashiorkor.
71. Vitamin D is consider as hormone.
72. Vitamin C increases iron absorption.
73. Vitamin B 12 deficiency leads to folate trap.

Molecular

74. Decrease activity Telomerase can be a one of the reason of aging.
75. Telomerase inhibitors can be use in treatment of malignancy.
76. UV radiation can cause Xeroderma pigmentosum (skin cancer).
77. Replication is semi-conservative.
78. Methotrexate (Folic acid analogues) is used to treat neoplastic disease.
79. 5-flurouracil cause suicide inhibition.