

DISCUSSION ANSWERS:-

1. B; cytochrome P450 is seen mostly in microsomes of liver. P stands for pigment.
2. D; Normal blood pH is 7.38 – 7.4

NaHCO_3 - H_2CO_3 ie sodium bicarbonate- carbonic acid buffer in RBC is the most important buffer system in extracellular fluid. Usual ratio is 20:1; called as alkali reserve of the body

3. C
4. D
5. A
6. D
7. A
8. A; Proteins targeted for destruction in eukaryotes are covalently linked to ubiquitin for degradation
9. D
10. A
11. D
12. D; Inulin is a polymer of fructose, used to assess kidney function.
13. B
14. A
15. C
16. A

Glycolysis- 8

Pyruvate to acetyl CoA- 6

Citric acid cycle- 24

Total= 38

17. A
18. D
19. B
20. D
21. A; Glycogen is the storage form of glucose in animals. Stored mostly in liver (6.8%) and muscle (1.2%). Due to more muscle mass, the quantity of glycogen in muscle is 3 times higher (250g) than that in liver(75g).
22. C
23. E
24. C; Both glucagon and adrenaline promote glycogenolysis by converting inactive phosphorylase enzyme to active phosphorylase through cAMP.