

BIOCHEMISTRY - PAPER II

Time : 3 hrs

Max marks : 50

- Answer all questions
- Draw diagrams wherever necessary

Essay

(10)

1. Discuss in detail the mechanism by which kidney maintains the blood pH. What is meant by metabolic acidosis and how it is compensated. (1+6+3=10)

Short essays

(2x5=10)

2. Explain the degradation of haem
3. Discuss the process of transcription in prokaryotes

Short notes

(5x3=15)

4. Cytochrome p450
5. List the different functions of plasma proteins.
6. Describe the Wald's visual cycle.
7. Antioxidants
8. Discuss the base repair mechanism of DNA

Answer briefly

(5x2=10)

9. Pellagra
10. Factors affecting iron absorption
11. DNA finger printing
12. Define gout and name three drugs used to treat gout.
13. Orotic aciduria

Give precise answers

(5x1=5)

14. Mention two features of mitochondrial DNA
15. List the functions of restriction endonucleases.
16. Define tumor markers and mention one example
17. The normal albumin-globulin ration and mention a condition in which it is reversed
18. Mention the examples of partially acceptable missense mutation and unacceptable missense mutation
