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GOVERNMENT OF KARNATAKA  
BOARD OF EXAMINING AUTHORITY  
D. Pharm Part-II Examination (ER-2020) JANUARY 2024  
BIOCHEMISTRY & CLINICAL PATHOLOGY

Max marks: 80 M

Time: 3 Hours

Note: i) Answer 6 questions from section A, 10 questions from section B and all questions from section C.  
ii) Draw diagram wherever necessary.  
iii) Answer to the point for objective type.

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SECTION -A

6X5=30 M

Long Essay (Answer any six)

1. Explain the qualitative tests of carbohydrates.
2. Define and classify proteins with examples. Explain the deficiency diseases of proteins.
3. Define and classify lipids with examples. Write the functions of lipids.
4. Discuss factors affecting enzyme action with graphs and equations.
5. Discuss in detail the role of fat soluble vitamins.
6. Explain glycolysis. Write its bioenergetics.
7. Describe urea cycle. Write its significance.

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SECTION -B

10X3=30 M

Short Essay (Answer any ten)

8. Write a note on biological role of carbohydrates.
9. What are essential amino acids? List them.
10. Functions of RNA.
11. Write a note on diagnostic applications of enzymes.
12. Write the functions of Vitamin C, vitamin B12 and folic acid.
13. Write a note on ketone bodies, its test and significance.
14. Explain transamination with an example.
15. Write the functions of calcium, iron, phosphorous.
16. Write a note on water balance.
17. Mention the abnormal constituents of urine. Write their significance.
18. What is lipid profile?

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SECTION -C

20X1= 20M

Objective type (Answer all questions)

19. Who coined the term 'Biochemistry'?
20. Structure of sucrose.
21. Give two examples of unsaturated fatty acids.
22. Mention pyrimidine bases.
23. What is holoenzyme?
24. What is an inhibitor? Give an example.
25. Role of biotin.
26. What is normal level of cholesterol in humans?
27. Write the deficiency diseases and symptoms of iodine.
28. What is RDA for zinc?
29. Which is the major anion of extracellular fluid?
30. Define genetic engineering.
31. Rothera's test is used to test \_\_\_\_\_.
32. Proteins acting as bio-catalyst are called as \_\_\_\_\_.
33. Full form of SGPT is \_\_\_\_\_.
34. Vitamin B12 deficiency causes \_\_\_\_\_.
35. Match the following:

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A

B

1) Glycogenesis

2) ATP gain in TCA cycle

3) Cytochrome oxidase

4) Albinism

a) 38 ATPs

b) Electron Transfer Chain.

c) Synthesis of glycogen

d) 12 ATPs

e) Breakdown of glycogen

f) Abnormal protein metabolism

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