

2022

1st Semester Examination

CLINICAL NUTRITION AND DIETETICS

Paper : CND 102

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *four* questions from the following : $2 \times 4 = 8$

1. What is anaplerotic reaction? Give example.
2. What is native gel electrophoresis?
3. Name any one blocker of glycolysis and mention the blocking step of it. 1+1
4. What is transamination reaction? Give example. 1+1
5. What is meant by reverse transcription?
6. What do you mean by indirect ELISA.

Group - B

Answer any *four* questions from the following :

$4 \times 4 = 16$

7. Discuss about different steps of PCR. 4
8. Write briefly the steps of β -oxidation. 4

P.T.O.

9. Write the principle of reverse phase HPLC. Diagrammatically represent the models of FACS. 2+2
10. Discuss the basic principle of SDS-PAGE. 4
11. Discuss the role of NADPH and glutathione in protecting cells against ROS. 4
12. What is the cause of orotic aciduria from the perspective of nucleotide metabolism. 4

Group - C

Answer any *two* questions from the following :

8×2=16

13. What are the different sources of xenobiotics? Write the characteristics of xenobiotics. Discuss briefly the xenobiotics metabolism. 2+2+4
14. Classify the enzyme according to their function. Write the competitive and non competitive inhibitions of enzyme. 2+3+3
15. State the cholesterol biosynthesis pathway. 8
16. What are meant by de novo synthesis and salvage pathways for nucleic acid metabolism. 'Methotrexate affects the nucleic acid synthesis' — explain the statement. What is Watson-Crick base pairing rule? 3+4+1
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