

M.Sc. 3rd Semester Examination, 2022

CLINICAL NUTRITION AND DIETETICS

PAPER – CND-301(CCAE)

Full Marks : 40

Time : 2 hours

The figures in the right hand margin indicate 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 × 4

1. What is ED50 ?

2. What do you mean by potency and intrinsic activity of a drug ?

1 + 1

3. What is antagonist ?

4. What is bioavailability of drug ?
5. Define nutrigenomics.
6. What do you mean by nutriepigenetics ?

GROUP – B

Answer any **four** questions from the following :

4 × 4

7. Write the differences between competitive and non-competitive antagonism.
8. Write the principle of drug action.
9. Discuss the drug-nutrient interaction at the site of absorption.
10. Discuss the role of carbohydrate on gene expression.
11. Write the nutriepigenetical reactions alongwith name of enzymes involved.

12. State the role of one carbon metabolism in nutri-epigenetical reaction for gene expression modulation for long term.

GROUP - C

Answer any two questions from the following :

8 × 2

13. Define food-drug interaction. Write the food drug interaction at the site of drug transportation and biotransformation. 2 + (3 + 3)
14. Discuss briefly the role of folic acid on gene expression. What is first pass effect? 6 + 2
15. Discuss the drug-nutrient interaction at the site of fecal clearance. Give example. Define pharmacodynamics. 6 + 2
16. State the 'Acetylpool' for nutriepigenetical reactions. Write the role of any one nutraceutical for epigenetical reaction. 3 + 5
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