

M.Sc. 3rd Semester Examination, 2022

CLINICAL NUTRITION AND DIETETICS

PAPER – CND-301(DAY)

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 of the following : 2 × 4

- 1. Define pharmaco-kinetics.**
- 2. What is dose response curve ?**
- 3. What is supra additive synergism ?**
- 4. What is proteomics ?**

5. What do you mean by up regulation of receptor ?
6. What is agonist ?

GROUP-B

Answer any **four** questions of the following : 4×4

7. What are the differences between steep DRC and Flat DRC. What is drug efficacy ? $3 + 1$
8. What is therapeutic window ? Write the clinical significance of it. $2 + 2$
9. Discuss the role of selenium on gene expression. 4
10. Discuss the drug nutrient interaction at the site of transportation. What is first-pass effect ? $3 + 1$
11. Define nutrigenomics. Write the chemical reactions involved in nutriepigenetics. $1 + 3$
12. State the role of curcumin on epigenetical reactions for anti inflammatory reaction. 4

GROUP-C

Answer any two questions of the following : 8×2

13. How does bioavailability of drug influence by nutrient? Write briefly the effect of grape fruit juice on drug action. $4 + 4$
14. How does nutrient influence the gene expression? Discuss the role of cholesterol on gene expression. $3 + 5$
15. Discuss the drug nutrient interaction at the site of renal clearance with suitable example. Define nutrigenomics. $6 + 2$
16. Write the role of tetrahydrofolate on epigenetical reaction for gene imprinting/silencing. What is the critical period of optimal nutriepigenetical reaction in embryonic life. $6 + 2$
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