

Fifth Year Pharm. D (SUPPLEMENTARY) : SUMMER - 2019
SUBJECT : PHARMACOEPIDEMOLOGY & PHARMACOECONOMICS

Day : Tuesday
Date : 02/07/2019

S-2019-4554

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 70

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** A) Answer **ANY FOUR** of the following: [08]
- i) Define Meta-analysis.
 - ii) Enumerate the various methods of measuring risk.
 - iii) Describe Patient Reported Outcomes.
 - iv) What are limitations of case control surveillance?
 - v) Enumerate different types of record linkage systems.
 - vi) Define odds ratio and explain with suitable example.
- B) Explain Ad Hoc data sources. [03]
- Q.2** Define Drug Utilization Review (DUR). Explain the steps involved in establishing a DUR program in a hospital setup. [12]
- Q.3** a) Explain attributable risk and relative risk with suitable examples. [07]
b) Differentiate between case control study and cohort study with suitable examples. [05]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
- a) Clinical problems and methodological problems to be addressed in risk management
 - b) Major predictors of poor adherence to medication
 - c) Case reports in pharmacoepidemiology
 - d) Prescribed daily doses (PDD) with suitable example

SECTION – II

- Q.5** A) Answer **ANY FOUR** of the following: [08]
- i) What do you mean by data-mining?
 - ii) Write any two significance of Registry.
 - iii) Expand ECHO and explain in brief.
 - iv) Expand QALY and state its significance in pharmacoeconomics.
 - v) Mention two uses of pharmacoeconomics in formulary management.
- B) Explain direct costs involvement in a hospital patient. [03]
- Q.6** Explain the Cost Effectiveness Analysis approach in pharmacoeconomics research with suitable example. [12]
- Q.7** a) Explain in brief the cost benefit analysis stating its significance. [07]
b) Describe various risk management approach and its effectiveness taken by regulatory authorities with suitable examples. [05]
- Q.8** Write short notes on **ANY THREE** of the following: [12]
- a) Applications of Pharmacoeconomics
 - b) Cost Minimisation Analysis
 - c) Discounting principles in Pharmacoeconomic Research
 - d) Methodological uses in Hospital Pharmacoepidemiology

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