

FIFTH YEAR PHARM. D : SUMMER - 2018
SUBJECT : PHARMACOEPIDEMOLOGY & PHARMACOECONOMICS

Day : **Saturday**
Date : **07/04/2018**

Time : **10.00 AM to 01.00 PM**
Max. Marks : 70

S-2018-4046

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) Classify drug utilization review on timeline basis.
 - ii) What is confounder?
 - iii) State advantages of case report.
 - iv) Define meta-analysis.
 - v) Define incidence rate with example.
 - vi) State the application of odds ratio.
- B)** State any three advantages of case-control studies. **[03]**
- Q.2** What do you mean by pharmacoepidemiology? State the various reasons to perform pharmacoepidemiology studies. **[12]**
- Q.3 a)** Discuss the strengths and weaknesses of Prescription Event Monitoring (PEM). **[07]**
- b)** Write and briefly explain the events for which follow up information is sought from general practitioner in PEM. **[05]**
- Q.4** Write short notes on **ANY THREE** of the following: **[12]**
- a) Cohort studies
 - b) Analysis of secular trends
 - c) Attributable risk
 - d) Defined Daily Dose

SECTION – II

- Q.5 A)** Answer **ANY FOUR** of the following: **[08]**
- i) Explain WTP with suitable example.
 - ii) What is the purpose for conducting meta-analysis?
 - iii) Explain the term 'moral hazard'.
 - iv) What are the limitations of effectiveness measure?
 - v) What do you mean by person trade-off?
 - vi) Expand ICER and state its use in pharmacoeconomics research.
- B)** Why hospital drug monitoring is suitable for pharmacoepidemiological studies? **[03]**
- Q.6** State the benefits of Cost Identification Analysis. Elaborate the various types of costs evaluated in pharmacoeconomic research. **[12]**
- Q.7 a)** Compare between the cost effectiveness analysis and cost benefit analysis. **[07]**
- b)** Explain the cost effectiveness plain with a suitable diagram. **[05]**
- Q.8** Write short notes on **ANY THREE** of the following: **[12]**
- a) Quality Adjusted Life Years (QALY)
 - b) Discounting
 - c) WHO Drug use Indicators
 - d) Clinical issues in vaccine safety

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