

IIHMR UNIVERSITY
School of Pharmaceutical Management
MBA Pharmaceutical Management
Batch-08 (2016-2018), First Year
Essentials of Pharmacoepidemiology
Term Examination



Time - 3 Hour

MM-70

The question paper contains 2 printed page. Attempt five questions, all question carry equal marks.

- Q.1 a) Describe Pharmacoepidemiology, its applications. (7)
b) Describe Pharmacoeconomics and its approaches. (7)
- Q.2 Describe the Study designs in Pharmacoepidemiology studies. (14)
- Q.3 Describe following terms (any seven): (2X7)
- | | | | |
|------------------|------------------------|---------|-------------|
| a) p value | b) Confidence interval | c) PSUR | d) PEM |
| e) Randomization | f) Sources of PE Data | g) SAE | h) Biasness |
| i) SUSAR | | | |
- Q.4 a) Solve the problem and find: Incidence Rate, Relative Risk, and Attributable Risk (per 100 persons) (7)
- In a cohort study on a population of 1050 the no. of person consume paracetamol almost daily are 150, out of which 82 are found to be having peptic ulcer, while 23 peptic ulcer case are found in person consuming paracetamol.
- b) After a dinner attended by 100 people, 12 individuals become ill. All 100 people are interviewed about their food consumption at the dinner. The interviews show that 8 of the 12 people who are ill and 25 of the 88 who are healthy ate fish. Find Incidence rate, attack rate and relative risk. (Per 100 persons) (7)
- Q.5 Solve the problem: (14)
- 600 adults were entered into the study. 210 had bed rest alone, 390 had bed rest + streptomycin. There were 14 deaths in the control group and 4 in the experimental group. The main side effect was VIIIth nerve damage causing permanent deafness, which was observed in 55 of the experimental group and none of the control group. Would you have prescribed streptomycin for pulmonary TB? And Find: CER, EER, ARR, RRR, NNT, NNH, Odds ratio, Risk Ratio.
- Q.6 a) Cases of Cancer is found in 25 out of 100 persons with cigarette while without cigarette is 12 out of 100 Calculate: Prevalence, Sensitivity, Specificity, PPV, NPV and assess the condition.

Q.7 a) Describe the ADR and its types.

(7)

b) Define mortality rate and case fatality rate also find case fatality rate in below statement along with your assessment.

"A hospital treated 115 individuals for malaria, there were 25 deaths".

(7)

