

LIHMR UNIVERSITY
School of Pharmaceutical Management
MBA Pharmaceutical Management
Batch-10 (2018-2020)
First Year



Essentials of Pharmaco-epidemiology
Term Examination

Time - 3 Hour

MM-70

The question paper contains two printed pages. Attempt any five questions.

- Q. 1.** Describe following terms (any seven, two marks each): **(14)**
- a) Type II error b) Confounding c) DDD d) Benefit/risk assessment
e) Randomization f) Sources of PE Data g) SAE h) ROC curve
i) ICER
- Q.2.** Describe the Pharmacovigilance system with its advantage & disadvantages. Also describe about the types of adverse drug reactions with methods to avoid them. **(14)**
- Q.3.** Describe following: **(4X3.5)**
- a) Prescription event monitoring
b) Drug Utilization study
c) De-challenge/ re-challenge
d) Signal Detection
- Q.4.** a) Describe Pharmacoepidemiology and its study designs. **(7)**
b) Describe Pharmacoeconomics and its study designs. **(7)**
- Q.5.** A new diabetes testing kit with sensitivity, specificity of 80% tested with 400 persons, the people found positive were sent to hospital for another test with sensitivity, specificity of 90%. With assumption of prevalence of diabetes in the population as 10%, find the PPV & NPV of both tests. **(14)**
- Q.6.** After a dinner attended by 200 people, 12 individuals become ill. All 200 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 188 who are healthy ate fish. Find Incidence rate, attack rate and relative risk. (Per 100 persons)
- Find: Control event rate (CER), Experimental event rate (EER), Absolute risk reduction (ARR), Relative risk reduction (RRR), Number needed to treat (NNT), Number needed to harm (NNH), Odds ratio, Risk Ratio **(14)**
- Q.7.** Describe the graph below for the pattern of risk for event in males: **(14)**

