

Q.P. Code: 502326

Reg. no.:

**Fifth Year Pharm D Degree Supplementary Examinations
December 2017**

Pharmacoepidemiology and Pharmacoeconomics

Time: 3 Hours

Total Marks: 70

- Answer all questions
- Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Explain cohort and case-control study designs with suitable examples.
2. Calculate average and incremental cost-effectiveness ratios using following data.
Explain results with cost-effectiveness plane.

Anti-asthmatics	Salbutamol + Ipratropium	Budesonide	Theophylline
Cost of therapy	Rs.1000 per year	Rs.650 per year	Rs.900 per year
Symptom free days	150	200	250

3. Describe prevalence, incidence and incidence rate with suitable examples.

Short notes:

(8x5=40)

4. Needs and applications of pharmacoepidemiology.
5. What is relative risk and explain with suitable example.
6. What is meta-analysis and mention the importance of meta-analysis in pharmacoepidemiology.
7. Prescription event monitoring.
8. Importance of pharmacoepidemiology in vaccine safety
9. Usefulness of automated databases in conduct of pharmacoepidemiological research.
10. Cost-minimization analysis with an example.
11. Define 'defined daily dose (DDD)'. Calculate DDD for Inj. Ceftriaxone using following data: WHO DDD for Inj. Ceftriaxone is 2g, patient received Inj. Ceftriaxone 1g 1-1-1 for the period of seven days.
