

Question Paper

Exam Date & Time: 11-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR PHARM D (POST BACCALAUREATE) / FOURTH YEAR PHARM. D DEGREE EXAMINATION - JULY 2022
SUBJECT: PPR 4.2T: HOSPITAL PHARMACY
(Revised Regulations 2014)

Marks: 70

Duration: 180 mins.

Answer all the questions.

Long Answer Questions:

- 1) i) What is powder dosage form? Discuss the different types of powder dosage form. (10)
ii) Describe the components and its importance of Total Parenteral Nutrition solutions.
- 2) Enumerate the various categories of staff working in the hospital pharmacy and explain the functions of each member. (10)
- 3) Define Pharmacy & Therapeutic Committee (PTC). Explain the role of PTC in ADR monitoring and reporting, drug utilization evaluation and preparation of emergency drug list. (10)

4. Short Answer Questions:

- 4A) What are charge and non charge floor stock drugs? Explain the selection criteria for these drugs in the hospital. (5)
- 4B) Define inventory and control. Explain VED method of inventory control. (5)
- 4C) What is Central Sterile Supply Room? Explain its organizations. (5)
- 4D) How Continuing Professional Development (CPD) programme is helpful in development of the pharmacist? (5)
- 4E) Explain the importance of medical records department in the hospital and content of medical record of the patient. (5)
- 4F) What is Institutional Ethical Committee(IEC) and what are the records to be maintained by IEC? (5)

5. Give reasons for the following:

- 5A) In the hospital not only clinical, supportive departments are also required for patient care. (2)
- 5B) Drugs are stored as per FIFO system in drug stores. (2)
- 5C) A turnover of six to eight times a year is considered satisfactory for any business. (2)
- 5D) Safety factors for various vendor lead time is added in the formulae to calculate reorder quantity level. (2)
- 5E) Chances of medication error is more in complete floor stock system. (2)

Question Paper

Exam Date & Time: 13-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR PHARM D-POST BACCALAUREATE PROGRAMME / FOURTH YEAR PHARM. D DEGREE EXAMINATION -
JULY 2022

SUBJECT: PPR 4.4T: BIostatISTICS AND RESEARCH METHODOLOGY
(REVISED REGULATIONS 2014)

Marks: 70

Duration: 180 mins.

Answer all the questions.

Long Essay Questions.

- 1) Describe cohort studies with respect to selection of subjects, obtaining data on exposure, selection of comparison groups, follow-up and analysis. (10)
- 2) Compare and contrast parametric and non-parametric tests. Write the general steps involved in calculation of Mann-Whitney test. (10)
- 3) Explain the components of a good research report or thesis. (10)

4. Short Essay Questions.

- 4A) Explain the construction and applications of bar graph and semi-log graph. (5)
- 4B) Write applications of SPSS and SAS in research data analysis. (5)
- 4C) Write the general steps involved in calculation of paired t-test. (5)
- 4D) Explain the applications of computers in drug information storage and retrieval. (5)
- 4E) Marks obtained by six student in a class test is given below, calculate mean, standard deviation (SD) and 95% confidence interval for the mean. (Note: $t_{0.05}$ at DF=5 is 2.571) (5)

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- 4F) Write the general steps involved in calculation of Kruskal-Wallis test. (5)

5. Give Reasons Questions.

- 5A) A 99% confidence interval is wider than 95% confidence interval. (2)
- 5B) Compared to normal distribution t-distribution has less peak and wider tails. (2)
- 5C) Box plot is more appropriate for graphical presentation of skewed data. (2)
- 5D) Unpaired t-test is not appropriate for comparing mean of more than two groups. (2)
- 5E) When odds ratio is >1 , there is a harmful association between exposure and outcome. (2)

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