

Question Paper

Exam Date & Time: 27-Jun-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION - JUNE/JULY 2022
SUBJECT: RES5002 - RESPIRATORY CARE PHARMACOLOGY
(SPECIALIZATION: ADULT RESPIRATORY CARE/ NEONATAL & PAEDIATRIC RESPIRATORY CARE)
(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Classify diuretic agents and explain the mechanism of action and indications of these agents. List two agents from four classes of diuretics and list its route of administration, dosage and duration of action. List the common side effects of each class of diuretic agents. (20)
(10+5+5 = 20 marks)
- 2) Classify and explain antiarrhythmic agents with examples. (20)
- 3A) Explain the different phases of drug administration. (10)
- 3B) Explain the assessment of patients before, during and after treatment with a beta-agonist therapy. List the adverse effects of adrenergic bronchodilators. (10)
(7+3 = 10 marks)
- 3C) List the clinical indications for use of aerosolized anti-infective agents. Explain the dosage and aerosolized administration of ribavirin (Virazole). (10)
(5+5 = 10 marks)
- 3D) Explain about the available drug formulations for nicotine replacement therapy in smoking cessation and the assessment of patients before, during and after treatment for smoking cessation. (10)
(6+4 = 10 marks)
- 4A) Explain the mechanism of action of nitrates in angina pectoris. (5)
- 4B) Explain the role of sulthiame in management of moderate to severe OSA. (5)
- 4C) List the side effects and general contraindications of anticholinergic aerosol therapy. (5)
- 4D) List the clinical indications for use of xanthines. (5)

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