

Question Paper

Exam Date & Time: 18-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER M.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION - JUNE 2024

SUBJECT: RES5002 - RESPIRATORY CARE PHARMACOLOGY

(SPL: ADULT RESPIRATORY CARE/NEONATAL & PAEDIATRIC RESPIRATORY CARE)

(2021 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Classify diuretic agents and enlist the dose, indication, duration of action and adverse effects. (20)
Explain the action of acetazolamide, Mannitol and Torsemide.
(10+10 = 20 marks)
- 2) Classify the antiarrhythmic agents according to Vaughan Williams classification. Describe the antiarrhythmic drugs used in Advanced Cardiac Life Support (ACLS). (20)
(10+10 = 20 marks)
- 3A) Explain the mode of action of Methylprednisolone. (10)
- 3B) You are asked to administer dexamethasone to a patient to prevent stridor post Extubation. Explain the different phases of its administration. (10)
- 3C) List the devices used to administer aerosol therapy and describe any one aerosol therapy delivery device with a neat, labelled diagram. (10)
- 3D) Explain the neural control of the pulmonary system. (10)
- 4A) List the dose, duration of action and indication of any two neuromuscular blocking agents. (5)
- 4B) Outline the mode of action of the drug Modafinil. (5)
- 4C) Explain the mechanism of action of nitroglycerine. (5)
- 4D) List the composition of surfactant. (5)

-----End-----