

**B.Sc. Allied Health Sciences Second Year Semester-III**  
**July/August 2019 Examination**

**B.Sc. Operation Theatre Technology**

**Time : 3 Hrs.**

**[ Max. Marks : 100]**

**Paper-II**

**Introduction to OT Technology**

**Q.P Code : J3100**

*Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.*

**Long Essay**

**2 X 10 = 20 Marks**

1. Mention various inhalational agents used in General Anaesthesia. Describe in detail any one of them.
2. Draw a neat labelled diagram of LMA. Mention types of LMA. Advantages & disadvantages of LMA.

**Short Essay (Answer any ten)**

**10 X 5 = 50 Marks**

3. ETO Sterilization.
4. Hydrogen peroxide.
5. Nitrous Oxide.
6. Sterilization of operation theatres.
7. Tourniquet.
8. Bupivacaine.
9. Bier's block.
10. Describe Laryngoscope.
11. Describe second gas effect & Diffusion hypoxia.
12. Colour coding for segregation of biomedical wastes.
13. Midazolam.
14. Ketamine.

**Short Answers (Answer any ten)**

**10 X 3 = 30 Marks**

15. Steam jacketed autoclave.
16. Seitz filter.
17. What is semicritical level of contamination mention examples?
18. Flash sterilization.
19. Tyndalization.
20. Hot water bath.
21. Contents of propofol.
22. Characteristics of ideal suture material.
23. Types of ET tubes.
24. Face mask.
25. Side effects of halothane.
26. Sterilization of linen.

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**B.Sc. Allied Health Sciences Second Year Semester-III**  
**July/August 2019 Examination**  
**B.Sc. Operation Theatre Technology**

Time : 2 Hrs.

[Max. Marks : 40]

**SUBJECT : PHARMACOLOGY**

**Q.P Code : J3110**

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**Long essay**

**1 X 10 = 10 Marks**

1. a. Classify non-steroidal anti-inflammatory drugs (NSAIDs)-----4
- b. Explain mechanism of action, uses and adverse effects of diclofenac----- 2+2+2

**Short essay (Answer any three)**

**3 X 5 = 15 Marks**

2. Explain mechanism of action, uses and adverse effects of atropine (1+3+1)
3. List the advantages and disadvantages of halothane (2.5+2.5)
4. Explain mechanism of action, uses and contraindications to propranolol (1+2.5+1.5)
5. Mention **five** techniques of administration of bupivacaine with type of surgery done (5)

**Short answer (Answer any five)**

**5 X 3 = 15 Marks**

6. Mention **three** uses of neostigmine
7. Mention **three** uses of adrenaline
8. Define bioavailability and redistribution
9. Mention **three** crystalloids and write **three** uses
10. Mention **three** routes of drug excretion
11. Explain mechanism of action and write **two** uses of pancuronium

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**B.Sc. Allied Health Sciences Second Year Semester-III**  
**July/August 2019 Examination**

**B.Sc. Operation Theatre Technology**

Time : 2.30 Hrs.

[ Max. Marks : 80]

**PAPER-IV**

**Medicine relevant to OT Technology**

**Q.P Code : J3120**

*Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.*

**Long Essay**

**2 X 10 = 20 Marks**

1. Mention anatomical and physiological changes in elderly patients' perioperative complications and management in elderly patients.
2. Define and classify chronic obstructive pulmonary disease. Describe etiopathogenesis, risk factors, perioperative complications

**Short Essay (Answer any Six)**

**6 X 5 = 30 Marks**

3. Define diabetes mellitus. Describe its etiopathogenesis.
4. Define hypertension. Describe perioperative complications and treatment of hypertension.
5. Diagnosis and treatment of perioperative myocardial ischemia.
6. Classification and etiopathogenesis of obesity.
7. Etiopathogenesis and clinical features of bronchial asthma.
8. Supine hypotension syndrome.
9. Management of perioperative complications of pregnancy induced hypertension.
10. Define anemia. Describe classification and clinical features of anemia.

**Short Answers (Answer any ten)**

**10 X 3 = 30 Marks**

11. Oral hypoglycemic agents.
12. Treatment of diabetic ketoacidosis.
13. Causes of perioperative hypertension.
14. Perioperative complications of ischemic heart disease.
15. Hypertensive crisis.
16. Risk factors for hypertension.
17. Body mass index.
18. Complications of obesity.
19. Risk factors of bronchial asthma.
20. Etiopathogenesis of pregnancy induced hypertension.
21. Insulin.
22. Clinical features of anemia.

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