

B.Sc. Allied Health Sciences Second Year Semester-III

February – 2019 Examination

B.Sc. Operation Theatre Technology

Paper – I

[Max. Marks: 100]

Time: 3 Hrs.

Applied Pathology & Microbiology

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

(Use separate answer booklet for Section A & B)

Section – A

Applied Pathology (50 Marks)

Q.P Code : J3095

LONG ESSAY

2 X 10 = 20 Marks

1. Define anemia. Write in detail about iron deficiency anemia
2. Define COPD. Describe etiopathogenesis, morphology of emphysema

SHORT ESSAY (Answer any three)

3 X 5 = 15 Marks

3. Classify leukemia. Describe microscopic morphology of AML
4. Describe the etiopathogenesis of pleural effusion
5. Describe the Coagulation cascade
6. Write in detail the classification of pneumoconiosis
7. Write etiopathogenesis of thalassemia

SHORT ANSWERS (Answer any five)

5 X 3 = 15 Marks

8. Write three causes for neutrophilia
9. What three test used to evaluate bleeding disorder
10. Write three causes for macrocytic anemia
11. What is leukemoid reaction
12. Write three function of WBC
13. Write three RBC indices
14. Describe the morphology of Asbestos body

Section – B

Applied Microbiology (50 Marks)

Q.P Code : J3096

(Use separate answer booklet for Section-B)

LONG ESSAY

2X10=20 Marks

1. Discuss briefly the measures taken to control the infections in health care setting
2. Classify sterilization. Describe in detail the working principle of autoclave with a diagram. List the sterilization controls used in the autoclave. (4+3+3)

SHORT ESSAY (Answer any three)

3X5= 15 Marks

3. Ventilator associated pneumonia.
4. Methods of monitoring the hot air oven
5. Sterilization by radiation
6. Vancomycin Resistant Enterococci
7. Enumerate Aldehydes used in disinfection. Describe the mechanism of action and uses of Aldehydes

SHORT ANSWERS (Answer any five)

5X3=15 Marks

8. Pasteurization.
9. Fumigation
10. Mention the Four areas of CSSD
11. How do you disinfect bed pans, thermometers, and cystoscopes
12. What is Plasma sterilization
13. Steps of hand washing
14. Surface active agents

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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

2X10=20 Marks

1. Classify local anaesthetic agents. Describe in detail about lignocaine.
2. Describe LMA. Mention indications, contraindications, advantages & disadvantages of LMA.

Short Essay (Any ten)

10X5=50 Marks

3. Sevoflurane.
4. Endotracheal tube.
5. Vicryl and prolene.
6. Chemical Sterilization.
7. Methods of testing the efficiency of autoclave.
8. Moist heat sterilization.
9. Define minimum alveolar concentration. Mention MAC values of inhalational agents used in general anaesthesia.
10. Oxygen.
11. Describe diffusion hypoxia and second gas effect.
12. Mention different types of suture materials? Detail description about non-absorbable suture materials?
13. Bier's block.
14. Color coding for segregation of biomedical wastes. Describe in detail.

Short Answers (Any ten)

10X3=30 Marks

15. Methods used in sterilizing semi critically contaminated equipments.
16. What is plasm gas sterilization? Mention it's uses.
17. Define bacteriostatic, bactericide, sporicide.
18. Tyndalization.
19. Sterilization of linen.
20. Betadine solution & betadine scrub.
21. Mention sterilant gases.
22. Classify local anaesthetics agents.
23. Types of suture materials with examples.
24. Incineration .
25. Prolene.
26. Sharps disposal.

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B.Sc. Allied Health Sciences Second Year (Semester-III)
February 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 × 10 = 10 Marks

1. a. Classify general anaesthetic agents----- 4
- b. List the advantages and disadvantages of halothane ----- 3+3

Short essay (Answer any three)

3 × 5 = 15 Marks

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

Short answer (Answer any five)

5 × 3 = 15 Marks

6. Mention **three** uses of morphine
7. Explain mechanism of action and write **two** uses of atropine
8. Mention **three** uses of diazepam
9. Mention **three** differences between crystalloids and colloids
10. Explain the mechanism of action and **two** uses of aspirin
11. Mention **three** uses of neostigmine

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B.Sc. Allied Health Sciences Second Year (Semester-III)
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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

2X10=20 Marks

1. Mention anatomical and physiological changes in elderly patients. Perioperative complication and management in elderly patient.
2. Define bronchial asthma, etiopathogenesis, risk factors and clinical features of asthma.

Short Essay (Answer Any Six)

6X5=30 Marks

3. Diabetic ketoacidosis.
4. Classification of obesity. Positioning of obese patients for spine surgery.
5. Define hypertension. JNC classification of hypertension.
6. Etiopathogenesis of pregnancy induced hypertension.
7. Define anemia. Anaesthetic management of an anemic patient posted for surgery.
8. Define chronic bronchitis. Pathophysiology of chronic bronchitis.
9. Anaesthetic management of elective cesarean section.
10. Treatment of Diabetes mellitus.

Short Answers (Answer Any ten)

10X3=30 Marks

11. Insulin.
12. Treatment of hypoglycemia.
13. Hypertensive crisis.
14. Risk factors of COPD.
15. Complications of hypertension.
16. Causes of anemia.
17. Oral hypoglycemic agents.
18. Clinical features of anemia.
19. Perioperative complications of bronchial asthma.
20. Risk factors of ischemic heart disease.
21. Complications of Diabetes mellitus.
22. Perioperative complications in elderly.

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