

BLDE (DEEMED TO BE UNIVERSITY)

7/24

B.Sc. in Anaesthesia Technology

[Time: 3 Hours]

[Max. Marks: 80]

V SEMESTER

PAPER - I (Basics of Surgical Procedure)

QP CODE: 8550

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What is ECF and ICF? Mention major electrolytes in ECF and ICF, explain with their normal values and a neat labelled diagram. Write a Short note on Hyponatremia.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Hybernatriemia.
3. Respiratory Alkalosis.
4. Metabolic acidosis and its treatment.
5. Hyperkalemia
6. Hypokalemia.
7. Metabolic Alkalosis.
8. Functions of Calcium.
9. Respiratory Acidosis.
10. Importance of Vitamin D in calcium Absorption.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Name few Calcium rich sources
12. Hypocalcemia
13. Tetany
14. Hypercarbia
15. What is PCO₂ and its normal value?
16. ABG and its normal values
17. Role of Sodium Bicarbonate in Acidosis
18. ECG changes in Hyperkalemia
19. Write normal values of Mg²⁺, Ca²⁺, Na²⁺ and K⁺ in ECF.
20. Role of calcium in Nerve conduction.
21. Hypercalcemia.

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PAPER - II (CSSD Procedures)

QP CODE: 8551

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. Enumerate major Endocrine glands. Differentiate between Exocrine and Endocrine glands.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Hypothyroidism implications to Anaesthesia
3. Antidiabetic drugs (Oral hypoglycemic drugs).
4. Normal Plasma Glucose levels and how is it Regulated?
5. Anaesthetic implications of Diabetes Mellitus
6. Fluid management in Diabetes mellitus patients undergoing Inguinal hernia surgery
7. Functions of Thyroid hormone
8. Hyperthyroidism implications to Anaesthesia
9. Steroidal hormones
10. Diabetic Ketoacidosis

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Classify Insulins
12. Diabetes Insipidus
13. Cushing's syndrome.
14. Addison's disease.
15. Thyroid Storm.
16. Name the Pituitary hormones.
17. Cretinism
18. Commonly used Steroids in Anaesthesia.
19. Functional Anatomy of Thyroid glands.
20. Complications of Diabetes Mellitus.
21. Hypoglycemia

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5/04/2024

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[Time: 3 Hours]

[Max. Marks: 80]

V SEMESTER

PAPER - III (Advanced Anaesthetics Techniques)

QP CODE: 8552

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What is morbid obesity? Classify Obesity depending on BMI. Mention complications of obesity.

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Vitamin B12 deficiency anemia
3. What are the Anaesthetic risks in obese patients?
4. What are the common causes of Anemia?
5. Functions of Hemoglobin in body.
6. Airway problems in Obesity.
7. Obstructive sleep apnoea (OSA).
8. Post-operative care for obese patients.
9. Describe General Anaesthesia for Obese patients
10. Monitoring of morbidly obese patients under spinal anaesthesia.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. What is PPH and its causes?
12. Airway changes during pregnancy
13. Define PIH.
14. Major changes in Respiratory system during Pregnancy.
15. Major CVS changes during pregnancy.
16. Supine Hypotension Syndrome
17. Relative anemia of pregnancy
18. Briefly explain hemoglobin metabolism.
19. Mention stages of labour.
20. Define Eclampsia.
21. Normal hemoglobin levels at different age groups.

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V SEMESTER

PAPER - IV (ATOT directed clinical education III)

QP CODE: 8553

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X1 = 10 Marks

1. What are the physiological changes during pregnancy and its anaesthetic implications?

Short Essays: (Any – 8)

5 X 8 = 40 Marks

2. Compression only CPR (COLS)
3. Classification of Supraglottic Airway devices
4. What is CPR? Mention its complications
5. Placenta previa.
6. Explain Ambu bag with a neat labelled diagram.
7. Guedel Airways (Oropharyngeal airways)
8. Abruptio Placenta.
9. Role of Adrenaline in CPR.
10. Gestational Diabetes Mellitus.

Short Answers: (Any – 10)

3 X 10 = 30 Marks

11. Role of Amiodarone in CPR
12. PEA (Pulseless electrical Activity)
13. Nasopharyngeal Airways.
14. Jaw thrust.
15. Components of Triple Maneuver.
16. Biphasic Defibrillator.
17. CPR in children.
18. I-Gel airway.
19. ROSC.
20. Monophasic Defibrillator.
21. Name the Shockable and Non shockable rhythms.