

B.Sc  
ANS.  
VI

JAN-2024

**BLDE (DEEMED TO BE UNIVERSITY)**

**B.Sc. in Anaesthesia Technology**

[Time: 3 Hours]

[Max. Marks: 80]

**VI SEMESTER**

**PAPER - I (Basic Intensive Care)**

**QP CODE: 8650**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. What does laparoscopic surgery mean? How do you prepare for a 40year old male patient posted for laparoscopic appendectomy?

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. How do you classify IVF fluids?
3. Draw a neat labelled diagram of ECG?
4. Hypovolemic shock.
5. Explain formula for intraoperative fluid requirement.
6. Define shock mention different types of shock with their etiologies?
7. Compare ECF vs ICF?
8. What is septic shock? Mention its management how do you classify IVF fluids?
9. Explain CO2 cylinder used for laparoscopic surgeries?
10. What are major leads of ECG monitored in Operation Theater and its relevance?

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Name three colloids
12. Components of RL.
13. What is anaphylactic shock?
14. What is interstitial fluid?
15. Major ions in ECF.
16. Name three crystalloids.
17. Gases used for laparoscopic surgeries.
18. Uses of 25% Dextrose.
19. Normal PR interval and its importance.
20. Normal blood volume.
21. Components of isolyte P.

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**VI SEMESTER**

**PAPER - II (Specialised Surgeries and Anaesthesia)**

**QP CODE: 8651**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Explain clinical examination of respiratory system under inspection, Palpation, percussion and auscultation?

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Expand 'PICKLE' and explain each?
3. What is edema and its significance?
4. Explain percussion of abdomen?
5. Examination of motor system?
6. What is fluid thrill and explain its significance?
7. What is pallor and explain its significance and sites. Where it should be examined?
8. Mention cranial nerves?
9. What is apical impulse and its importance?
10. Explain the auscultatory areas and their significance?

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Koilonychia?
12. Classify cardiac murmurs?
13. How do you examine upper respiratory tract?
14. How do you examine higher mental functions?
15. Auscultatory areas of chest for lower respiratory tract?
16. Importance of precordium?
17. Icterus?
18. Significance of examination of eye?
19. How do you examine sensory system?
20. Explain characteristics of second heart sounds?
21. What is significance of auscultatory gap in B.P measurement?

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**VI SEMESTER**

**PAPER - III (Electronics and Technology in Surgery and Anaesthesia)**

**QP CODE: 8652**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Describe the function of a mechanical ventilator. Explore the different modes of ventilators

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. What is normal body temperature and how it is regulated?
3. Differences between acute and chronic pain
4. SIMV mode of ventilator
5. Weaning from ventilator
6. ACMV mode of ventilator
7. C-PAP
8. What is pulse? Mention sites for its measurements
9. Diagrammatic presentation of the pain pathway
10. How to monitor patients on ventilators?

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Mention newer modes of ventilator
12. Define pain
13. Pain receptors
14. Name 3 drugs for chronic pain
15. Characteristics of normal pulse
16. Face's Scale for pain measurement
17. What is PEEP?
18. Name 3 drugs for acute pain
19. Visual analogue scale for pain measurement
20. Pulse oximeter
21. Mention 3 mediators of pain

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**VI SEMESTER**

**PAPER - IV (ATOT Directed Clinical Education IV)**

**QP CODE: 8653**

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 differences between paediatric airway compared to adults? Explain different methods of induction of GA in paediatric patients.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Diagrammatic representation of CSF circulation.
3. Anaesthetic consideration in Lumbar spine surgeries.
4. Fluid management in paediatric patients posted for surgery.
5. Caudal epidural in paediatric patient.
6. Difficulties of spinal anaesthesia in elderly patients.
7. Common comorbidities of elderly patients.
8. Lithotomy position.
9. What are the indications of intubation in ICU?
10. CVP waves and its importance.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Trendelenburg position.
12. What is Sims position.
13. Indications of tracheostomy in ICU.
14. Complications of prone positioning.
15. Induction agents for neuroanaesthesia.
16. Induction methods for paediatric patients.
17. Define neonate, infant and paediatric age group.
18. Selection of ET tube for paediatric patients.
19. Laryngoscope blades for paediatric patients.
20. Cerebral autoregulation.
21. Spinal nerves – total number and how are they divided.