

BSc  
ANUS  
TV

JAN - 2024

**BLDE (DEEMED TO BE UNIVERSITY)**

**B.Sc. in Anaesthesia Technology**

[Time: 3 Hours]

[Max. Marks: 80]

**IV SEMESTER**

**PAPER - I (Basic Techniques of Anaesthesia)**

**QP CODE: 8450**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Briefly discuss about COPD. Explain its Signs, symptoms and risk factors. Write about the components of COPD.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Neat labelled diagram of tracheobronchial tree.
3. Describe normal respiration.
4. Neat labelled diagram of Broncho pulmonary segments.
5. Components of upper respiratory anatomy.
6. State the difference between Emphysema and Chronic Bronchitis.
7. Neat labelled diagram of Glottic opening.
8. Describe dead space ventilation.
9. Labelled diagram of spirometry.
10. Describe respiratory muscles.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Functional residual capacity.
12. Type 1 & Type 2 Respiratory failure.
13. Signs & symptoms of pulmonary TB.
14. Hypoxia.
15. Hypercapnia.
16. What is hemoglobin and mention its normal range.
17. Henry's Law.
18. What is etCO<sub>2</sub> and its normal range?
19. Nerve supply of Diaphragm and its functions.
20. O<sub>2</sub> Dissociation curve.
21. V/Q Ratio.

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**IV SEMESTER**

**PAPER II - (Medical Disease Influencing Choice of Anaesthesia)**

**QP CODE: 8451**

Your answer should be specific to the questions asked.  
Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Define Cirrhosis of Liver. Describe in brief about Anaesthesia management of Liver surgeries.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Hepato-Renal Syndrome.
3. Liver Function Tests.
4. What is Child-Pugh classification?
5. Define Jaundice & classify.
6. Fate of Bilirubin.
7. What is the blood supply to the Liver?
8. What are the different types of Viral Hepatitis. Describe anyone.
9. Causes of Liver Cirrhosis.
10. Portal Triad. Describe with a neat labelled diagram.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Define Obstructive Jaundice.
12. Name Bile Salts.
13. Name Bile Pigments.
14. Complications of Ascites.
15. 3 Signs of Liver Failure.
16. Neat labelled diagram of Hepatitis B.
17. Name Coagulation factors synthesized in Liver.
18. 3 Functions of Liver.
19. Define Hemolytic Jaundice.
20. 3 Complications of Cirrhosis.
21. 3 adverse effects of Alcohol.

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**IV SEMESTER**

**PAPER III - (Medicine Relevant to OT Technology)**

**QP CODE: 8452**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Describe factors affecting cerebral blood & add a short note on cerebral autoregulation.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Methods to reduce ICP.
3. Normal CSF composition.
4. CPP (Cerebral Perfusion Pressure)
5. CMRO<sub>2</sub> (Cerebral Metabolic Rate of Oxygen Consumption).
6. Name the Cranial Nerves.
7. Circle of Willis.
8. Signs & Symptoms of Raised ICP.
9. Normal CSF FLOW.
10. ICP (Intracranial Pressure).

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Hydrocephalus.
12. Signs and Symptoms of Meningitis.
13. Lumbar Vertebral Bodies.
14. Blood Brain Barrier.
15. Diagram of Hemi-Section of Spinal Cord showing Grey and White Matter.
16. Spinal Nerves.
17. Spinal Cord & its Blood Supply.
18. Foramen of Lushka & Megandie.
19. EDH vs SDH.
20. Sacral Vertebral Bodies.
21. Epidural Space Contents.

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**IV SEMESTER**

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

**QP CODE: 8453**

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

**Long Questions**

**10X1 = 10 Marks**

1. Describe Acute Renal Failure and its Anaesthetic Management.

**Short Essays: (Any – 8)**

**5 X 8 = 40 Marks**

2. Renal function tests.
3. Functions of Blood.
4. Functions of Kidney.
5. Plasma Proteins and its normal range.
6. Importance of Body Fluids.
7. Composition of blood.
8. Distribution and Composition of Body fluids.
9. Define Dehydration and its signs and symptoms.
10. Draw a diagram of Nephron and explain its structure.

**Short Answers: (Any – 10)**

**3 X 10 = 30 Marks**

11. Define Oliguria.
12. Types of Renal failure.
13. Chronic kidney disease classification.
14. Microalbuminuria.
15. Define Haematuria.
16. Name 3 Loop diuretics.
17. Define Proteinuria.
18. JuxtaGlomerular Apparatus.
19. Normal Creatinine and Blood Urea level.
20. Blood Supply of Kidney.
21. Name 3 causes of Acute Renal Failure.