

**DETAILED SYLLABUS FOR THE POST OF ASSISTANT PROFESSOR
(ANAESTHESIOLOGY) (MEDICAL EDUCATION)**

(Cat.No. : 343/2023)

1. **GENERAL ANAESTHESIA** 15 MARKS
 - a. HISTORY OF ANAESTHESIA
 - b. INTRAVENOUS ANAESTHESIA
 - c. INHALATIONAL ANAESTHESIA
 - d. PRE- ANAESTHESIA ASSESSMENT PREPARATION AND PERI OPERATIVE CARE
 - e. MAINTENANCE OF ANAESTHESIA
 - f. REVERSAL
 - g. MONITORED ANAESTHESIA CARE
 - h. AIRWAY: ENDOTRACHEAL INTUBATION, DIFFICULT AIRWAY, MANAGEMENT OF OBSTRUCTED AIRWAY
 - i. OUTPATIENT ANAESTHESIA
 - j. MONITORING IN OT, ICU

2. **NEURAXIAL BLOCKADE** 5 MARKS
 - a. LSAB
 - b. EPIDURAL

3. **REGIONAL ANAESTHESIA** 5 MARKS
 - a. COMMON NERVE BLOCKS
 - b. IVRA
 - c. LOCAL ANAESTHESIA

4. **BASIC SCIENCES RELATED TO ANAESTHESIOLOGY** 10 MARKS
 - a. ANATOMY
 - b. PHYSIOLOGY
 - c. PHARMACOLOGY
 - d. MICROBIOLOGY

- e. PATHOLOGY
- f. GENETICS
- g. MEDICINE
- h. PHYSICS

5. EQUIPMENTS 5 MARKS

- a. AIRWAY RELATED EQUIPMENTS
- b. ANAESTHESIA MACHINE, PARTS
- c. EQUIPMENTS FOR MONITORING
- d. MEDICAL GAS PLANT & PIPELINE SYSTEM

6. DRUGS 10 MARKS

- a. INTRAVENOUS
- b. INHALATIONAL, UPTAKE AND DISTRIBUTION
- c. LOCAL ANAESTHETICS
- d. VASOACTIVE
- e. ANTIBIOTICS

7. PAIN & PALLIATIVE 10 MARKS

- a. LABOUR ANALGESIA
- b. COMMON MODALITIES OF ACUTE AND CHRONIC PAIN THERAPY
- c. TENS
- d. PCA
- e. POST OP PAIN MANAGEMENT
- f. NEUROLYTIC & NERVE ABLATION PROCEDURES
- g. ACUTE AND CHRONIC PAIN MANAGEMENT
- h. PSYCHOLOGICAL ASPECTS OF PAIN THERAPY

8. CRITICAL CARE 10 MARKS

- a. MANAGEMENT OF SHOCK, RESPIRATORY FAILURE, CARDIAC FAILURE

- b. MANAGEMENT OF ARDS, PULMONARY EMBOLISM, PANCREATITIS, CVA, INFECTIONS IN ICU, ACUTE KIDNEY INJURY, LIVER FAILURE- ACUTE , DCLD
- c. CPR BLS, ACLS
- d. ATLS
- e. MANAGEMENT OF A PATIENT ON VENTILATOR
- f. FLUID AND ELECTROLYTE MANAGENT
- g. BLOOD & BLOOD PRODUCTS
- h. ACID BASE BALANCE
- i. INTEPRETING ABG
- j. ULTRAAOUND AND ECHOCARDIGRAPHY IN ICU

9. SUBSPECIALITIES 15 MARKS

- a. OBSTETRIC ANAESTHESIA, LABOUR ANALGESIA
- b. ANAESTHESIA MANAGEMENT & POST OP CARE IN VARIOUS ORGAN TRANSPLANTATION
- c. NEURO ANAESTHESIA
- d. ANAESTHESIA OUTSIDE OPERATION THEATRE
- e. DIASTER MANAGEMENT
- f. TRAUMA CARE

10. SKILLS & PROCEDURES 7 MARKS

- a. ICD
- b. INTUBATION
- c. CENTRAL LINE
- d. ARTERIAL LINE
- e. PERIPHERAL LINES
- f. NASOGASTRIC TUBE
- g. PULMONARY ARTERY CATHETERISATION
- h. FIBRE OPTIC BRONCHOSCOPY
- i. AIRWAY MANAGEMENT- CRICOTHYROIDOTOMY, TRACHEOSTOMY

11. ANCILLIARY 8 MARKS

- a. ADMINISTRATIVE ANAESTHESIOLOGY-PROBLEMS AND RESPONSIBILITY
- b. TEACHING ANAESTHESIOLOGY
- c. SCOPE OF MODERN ANAESTHETIC PRACTICE
- d. COMMUNICATION SKILLS
- e. SAFETY OF OPERATION THEATRE ENVIRONMENT
- f. STERILISATION AND CARE OF OPERATION THEATRE AND EQUIPMENTS
- g. INFECTION CONTROL & PREVENTION
- h. ACCIDENTS, COMPLICATIONS & SEQUELAE OF ANAESTHESIA
- i. MEDICOLEGAL ASPECTS OF ANAESTHESIA
- j. MEDICAL RECORD KEEPING & AUDIT
- k. EVIDENCE BASED MEDICINE
- l. BIostatISTICS & RESEARCH METHODOLOGY

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.