

NZ Anaesthetic Technicians' Registration Examination
Multiple Choice/Short Answer Questions and Viva Topics

GUIDELINE FOR STUDY

EXAMINATION TOPICS

The examination will cover topics selected from the following list:

Anaesthesia drugs

Anaesthesia equipment

- Equipment maintenance
- Cleaning of equipment
- Warming equipment

Gas supply

- Anaesthesia machine
- Anaesthesia circuits
- Vaporisers
- Wall supply
- Tank supply
- Emergency circuits/supply

Air way management

- Laryngoscopes
- Airway devices tubes/masks/emergency airway
- Difficult intubation

Fluid therapy

- Blood transfusion practice
- IV fluids
- Giving equipment
- Pressure systems/warming systems

Monitoring

- Cardiac measurement arterial & central venous lines
- ECG
- Blood pressure
- Pulse oximetry
- Capnography
- Gas/agent monitoring
- Temperature
- Warming equipment

Resuscitation, including

- Malignant hyperthermia
- Trauma
- Anaphylaxis
- Cardiac arrest

Anaesthesia for commonly encountered specialities and situations

- Obstetric/ Gynaecology
- ENT
- General surgery
- Orthopaedics
- Urology

- Geriatric anaesthesia
- Paediatric anaesthesia
- Regional Anaesthesia
- Anaesthesia in remote locations, including
- Transport of patients inter/intra hospital

Positioning of patients

Environmental

- Theatre requirements
- Electrical safety
- Theatre safety
- Theatre hazards

- History of anaesthesia

- Crisis in theatre
- Fire
- Bomb threat/ violent behaviour
- Equipment failure

Example form of Viva questions.

Equipment:

Identify this *Breathing Circuit* –

Answer - a Co axial Bain circuit

Describe the features

- Explain the physics of a co-axial Bain circuit (how does it work)
- Are there any hazards or problems in practice associated with the use of the Bains?
- When and why would the Bains be used?
- How do you check the Bain's? - Show me
- What is this test called.

Universal Standards:

What are Universal Standards

When do you apply them to practice?

Tell me 4 methods that you use daily that comply with Universal Standards

Name two sources where can you find information on Universal Standards applicable to the practice of anaesthesia

Describe, in sequence, the decontamination process of a soiled LMA.

Non-sequential Vivas (examples)

- What equipment would you prepare for a paediatric tonsil case?
- How would you prepare for placenta previa?
- What are the potential immediate complications of an epidural anaesthetic?
- Tell the names of some different local anaesthetics?
- What drug can be used to increase the blood pressure?

The above type of questions may be asked randomly or alternatively they may be the 'starter' in a sequence or framework, and a series of follow-on questions maybe derived from the original question. Each 10 minute Viva in the OSCE programme *may* be broken down into two subjects – for example – 5 minutes on Paediatrics, then 5 minutes in Resuscitation. The next viva station *could* be viva questions on Obstetrics and Infection Control and *maybe* followed by a 3rd station on Equipment and Regional anaesthesia.