

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2013
ADVANCED AND CRITICAL CARE
PAPER FIRST

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagram wherever necessary

A : Short answer questions:

(7 x 9 = 63)

- Q. 1. Write down name of the things required for CVP line insertion via internal jugular vein.
- Q. 2. How will you prepare a set or trolley for a patient posted for elective tracheostomy?
- Q. 3. Write down the advantages and disadvantages of parenteral nutrition.
- Q. 4. How will you transfer an intubated patient for MRI from ICU.
- Q. 5. Write down the steps of checking of anaesthesia ventilator.
- Q. 6. How will you care a tracheostomised patient who is monitored for invasive blood pressure and CVP?
- Q. 7. Enumerate the methods of sterilization of Operation Theater
- Q. 8. Write notes on organ harvesting.
- Q. 9. Enumerate the various steps of CPR.

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2013
ADVANCED AND CRITICAL CARE
PAPER FIRST (MCQ)

Time allotted for MCQ- 15 minutes

B : MCQs (Single response type):

(½ x 14= 7)

Select the most appropriate answer and encircle the alphabet against it

1. Which drug should not be given in the treatment of bradycardia:
 - a. Atropine
 - b. Neostigmine
 - c. Adrenaline
 - d. Glycopyrrolate
2. All are non invasive procedure EXCEPT:
 - a. NIBP
 - b. SpO₂
 - c. CVP
 - d. ECG
3. Which anaesthesia circuit is best for spontaneously breathing subject:
 - a. Bain circuit
 - b. Mapleson's B circuit
 - c. Magill's circuit
 - d. Mapleson's C circuit
4. Mallampati grading is done for :
 - a. Blood pressure assessment
 - b. Blood glucose assessment
 - c. Airway assessment
 - d. Abdominal pressure assessment
5. Oxygen is transported in blood via:
 - a. Bind with Hb form
 - b. Dissolve in plasma
 - c. Both
 - d. None
6. Which is NOT a complication of spinal anaesthesia?
 - a. Hypotension
 - b. Nausea and Vomiting
 - c. Bradycardia
 - d. Hyperthermia
7. Which is NOT a part of standard monitoring system?
 - a. NIBP
 - b. SpO₂
 - c. Temperature
 - d. Neuromuscular monitoring
8. In hyperkalemia calcium gluconate is given because:
 - a. Intracellular shifting of K⁺
 - b. Membrane stabilizing effect
 - c. Cause hypotension
 - d. Shift K⁺ outside of cell
9. Which is most important step in prevention of nosocomial infection?
 - a. Antibiotic prophylaxis
 - b. Frequent hand washing
 - c. Culture and sensitivity
 - d. Isolation
10. Which test is done to assess renal function?
 - a. Serum bilirubin
 - b. Serum creatinine
 - c. Serum albumin
 - d. Serum calcium
11. Capnograph shows value and graph for:
 - a. Oxygen
 - b. Nitrogen
 - c. Carbon dioxide
 - d. Halothane
12. In fever which is NOT present:
 - a. Tachycardia
 - b. Hypothermia
 - c. Hypertension
 - d. Nausea and Vomiting
13. Sterilization is done to prevent
 - a. Trauma
 - b. Infection
 - c. Damage to equipment
 - d. None
14. In keratoplasty which part of body is transplanted
 - a. Skin
 - b. Kidney
 - c. Cornea
 - d. Liver

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2013
SPECIAL PROCEDURES & STERILIZATION TECHNIQUES
PAPER SECOND

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagram wherever necessary

A : Short answer questions:

(7 x 9 = 63)

Write short notes on:

- Q. 1. Sterilization of OT instruments.
- Q. 2. Foley's catheterization
- Q. 3. Prevention of cautery burns
- Q. 4. Universal precautions
- Q. 5. Special instruments for neurosurgery
- Q. 6. T.U.R.P.
- Q. 7. Laparoscopic cholecystectomy
- Q. 8. I.C.T.D.
- Q. 9. Gangrene

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2013
SPECIAL PROCEDURES & STERILIZATION TECHNIQUES
PAPER SECOND (MCQ)

Time allotted for MCQ- 15 minutes

B : MCQs (Single response type):

(½ x 14= 7)

Select the most appropriate answer and encircle the alphabet against it

1. Name the incision for LSCS:
 - a. Upper midline
 - b. Paramedian
 - c. Transverse
 - d. Pfannenstiel's incision
2. What is the position of the patient for haemorrhoidectomy?
 - a. Supine
 - b. Lithotomy
 - c. Left lateral
 - d. Jack- Knife
3. The commercial method of sterilization for sutures is:
 - a. Ethylene oxide
 - b. Ultraviolet rays
 - c. Autoclaving
 - d. Gamma rays
4. The process of destroying all the micro-organisms and spores is known as:
 - a. Antisepsis
 - b. Disinfection
 - c. Fumigation
 - d. Sterilization
5. Which surgical blade is used in I & D procedure?
 - a. No. 23
 - b. No. 11
 - c. No. 15
 - d. No. 20
6. Ryle's tube is made of:
 - a. India rubber
 - b. Latex rubber
 - c. PVC
 - d. Silicone rubber
7. Which of the following is a self-retaining retractor?
 - a. Mastoid retractor
 - b. Czerny's
 - c. Devaver
 - d. Morris
8. The Universal donor blood group is:
 - a. O +ve
 - b. AB +ve
 - c. AB -ve
 - d. O -ve
9. In hernia surgery which suture is used to stitch the mesh?
 - a. Vicryle
 - b. Prolene
 - c. Catgut
 - d. Silk
10. Operation for hydrocele is best done under:
 - a. Local anaesthesia
 - b. Spinal anaesthesia
 - c. Epidural anaesthesia
 - d. General anaesthesia
11. Vaccination is available for:
 - a. Hepatitis C
 - b. Hepatitis B
 - c. HIV
 - d. Malaria
12. The causative organism for gas gangrene is:
 - a. Staphylococcus
 - b. Clostridium welchii
 - c. Clostridium tetani
 - d. Entamoeba histolitica
13. The instrument used to harvest a skin graft is:
 - a. Bard- Parker knife
 - b. Gamma knife
 - c. Humbey's knife
 - d. Hudson's brace
14. The suture for vascular anastomosis is:
 - a. Silk
 - b. Catgut
 - c. Vicryl
 - d. Prolene

Regn. No.....

Paper Code: BOT - 301

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2015
ADVANCED AND CRITICAL CARE
PAPER FIRST

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagram wherever necessary

A : Short answer questions:

(7 x 9 = 63)

- Q. 1. Discuss in detail the layout of CSSD.
- Q. 2. Define sterilization technique. Discuss in detail about dry heat sterilizations.
- Q. 3. Indications and method of CVP monitoring.
- Q. 4. How will you care for an unconscious patient in ICU?
- Q. 5. What are the components of breathing system Discuss Bain's Circuit?
- Q. 6. Enumerate the instruments you will keep in a difficult intubations cart.
- Q. 7. What are the steps for sterilizations of ICU?
- Q. 8. Draw a labeled diagram of endotracheal tube. How will you select the correct tube for pediatric Patient?
- Q. 9. Enumerate the steps of cardiac compression and ventilation in CPR.

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2015
ADVANCED AND CRITICAL CARE
PAPER FIRST (MCQ)

Time allotted for MCQ- 15 minutes

B : MCQs (Single response type):

(½ x 14= 7)

Select the most appropriate answer and encircle the alphabet against it

1. Depolarizing muscle relaxant is:
 - a. Succinylcholine 1-6
 - b. Vecuronium
 - c. Recuronium
 - d. Atracurium
2. Vagolytic dose of atropine is?
 - a. 1mg
 - b. 3 mg
 - c. 0.6 mg
 - d. 5 mg
3. Ampoule of adrenaline contains :
 - a. 1 mg 1:10000
 - b. 1 Mg 1: 100
 - c. 1 mg 1:1000
 - d. 1 mg 1:10
4. Requirement of I.V. Fluid for 15 kg child in :
 - a. 40 ml/hour
 - b. 10 ml/hr
 - c. 60 ml /hr.
 - d. 75 ml/hr.
5. Size of endotracheal tube is selected by:
 - a. Age/ 3+ 3 .5
 - b. Age/3.5+3.0
 - c. Age/4.5+4.5
 - d. Age/5 + 5.5
6. Caloric requirement of patient is:
 - a. 30 kcal/kg/day
 - b. 40Kcal/kg/day
 - c. 20Kcal/kg/day
 - d. 10Kcal/kg/day
7. Trendelberg position leads to:
 - a. Venous return
 - b. Venous return
 - c. No change in venous return
 - d. None of above
8. Size of LMA required for 15 kg patient:
 - a. Size 1
 - b. Size 2
 - c. Size 1.5
 - d. Size 3
9. Use of Guedel airway is contraindicated in:
 - a. Presence of Gag reflex.
 - b. No effect to Gag reflex
 - c. Absence of Gag reflex
 - d. All of above
10. Length of naso pharyngeal airway is calculated between:
 - a. Alanasi to tragus
 - b. Tip of nose to angle of mandible
 - c. Angle of mandible to angle of mouth
 - d. Angle of mouth to tragus
11. Ideal depth of endotracheal tube:
 - a. At carina
 - b. Middle of trachea
 - c. Below carina
 - d. Right bronchus
12. Ideal endotracheal tube for cleft palate surgery is
 - a. Oxford tube
 - b. North pole tube
 - c. MLS tube
 - d. Cole's tube
13. Colors of 24G I.V. cannula is :
 - a. Yellow
 - b. Grey
 - c. White
 - d. Grey
 - e. Green
14. Additive added for spinal anaesthesia is :
 - a. Clonidine
 - b. Magnesium
 - c. Midazolam
 - d. All of above

Regn. No.....

Paper Code: BOT - 302

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2015
SPECIAL PROCEDURES & STERILIZATION TECHNIQUES
PAPER SECOND

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagram wherever necessary

A : Short answer questions:

(7 x 9 = 63)

- Q. 1. Surgical SCRUB: state definition, purpose and procedure.
- Q. 2. As an O.T technician, discuss preparation of an operation theatre trolley for surgery. Add a note on sterile technique of draping a patient.
- Q. 3. Describe briefly types and components of dressing. Add a note on advantages & disadvantages of dressing.
- Q. 4. Define sterilization, Disinfection & Antisepsis. Write in Detail about AUTOCLAVE.
- Q. 5. Write in brief:
 - a. Harmonic scalpel
 - b. Caesarian section
- Q. 6. Discuss briefly the following surgeries.
 - a. Craniotomy
 - b. Caesarian section
- Q. 7. Describe per operating care during cardio thoracic surgery. Add a note on Cardiothoracic & Vascular surgery instruments.
- Q. 8. Write in detail about different types of retractors used in surgery.
- Q. 9. Comment upon :
 - a. Ringer lactate
 - b. Total parenteral nutrition (tpn)

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2015
SPECIAL PROCEDURES & STERILIZATION TECHNIQUES
PAPER SECOND (MCQ)

Time allotted for MCQ- 15 minutes

B : MCQs (Single response type):

(½ x 14= 7)

Select the most appropriate answer and encircle the alphabet against it

1. Highest concentration of potassium is in :
 - a. Plasma
 - b. Isotonic saline
 - c. Ringer lactate
 - d. Darrow's solution
2. CVP & pulmonary wedge pressure give an accurate assessment of all the following EXCEPT:
 - a. Tissue perfusion
 - b. Volume depletion
 - c. Volume overload
 - d. Myocardial function
3. Massine blood trans fusion is defined as :
 - a. 350 ml in 5 min
 - b. 500 ml in 5 min
 - c. 1 litre in 5 min
 - d. Whole blood volume
4. Blood clot the size of clenched fist is roughly equals to :
 - a. 250 ml
 - b. 350 ml
 - c. 500 ml
 - d. 600 ml
5. Punched out edges are seen in :
 - a. Tubercular ulcer
 - b. Arterial ulcer
 - c. Venous ulcer
 - d. Healing ulcer
6. Bed sore is an example of:
 - a. Tropical ulcer
 - b. Venous ulcer
 - c. Trophic ulcer
 - d. Post thrombotic ulcer
7. Grid-iron incision is given for:
 - a. Cholecystectomy
 - b. Appendicectomy
 - c. Rt inguinal hernia
 - d. Caesarian section
8. Best prognostic factor for head injury is :
 - a. Glassgow coma scale
 - b. AGE
 - c. Mode of injury
 - d. Ct scan
9. Czerny's is a :
 - a. Retractor
 - b. Artery forciers
 - c. Drain
 - d. Suture material
10. Which of the following is a delayed absorbable synthetic suture material:
 - a. Chromic catgut
 - b. Vicryl
 - c. Silk
 - d. Nylon
11. The surgeon who introduced catgut in surgery was:
 - a. Astley cooper
 - b. Lord lister
 - c. John Hunter
 - d. Syme
12. A clean incised wound heals by:
 - a. Primary intention
 - b. Secondary intention
 - c. Excessive scarring
 - d. None
13. Humby's knife is used for :
 - a. SSG
 - b. Cutting sutures
 - c. Abdominal incursion
 - d. Craniotomy
14. Gas for pneumo peritoneum :
 - a. CO₂
 - b. N₂O
 - c. O₂
 - d. N₂

Regn. No.....

Paper Code: BOT - 301

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2016
ADVANCED AND CRITICAL CARE
PAPER FIRST

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagram wherever necessary

A : Short answer questions:

(7 x 9 = 63)

- Q. 1.** What are the types of Sterilisation?
- Q. 2.** Write about CSSD procedures in Hospital.
- Q. 3.** What are the duties of the nurses in Post anaesthesia care unit?
- Q. 4.** Write a short note on bed sores in ICU.
- Q. 5.** What are the indications for oxygen therapy?
- Q. 6.** What is chain of survival?
- Q. 7.** What is the importance of record keeping in anesthesia?
- Q. 8.** What are the types of consent?
- Q. 9.** How can nutrition be provided to patients in ICU?

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2016
ADVANCED AND CRITICAL CARE
PAPER FIRST (MCQ)

Time allotted for MCQ- 15 minutes

B : MCQs (Single response type):

(½ x 14= 7)

Select the most appropriate answer and encircle the alphabet against it

1. Ventilators are used in ICU
 - a. To take X-rays
 - b. To do ultrasound
 - c. To give artificial respiration
 - d. To take EEG
2. Fractures can be
 - a. Simple fracture
 - b. Compound fracture
 - c. Complicated fracture
 - d. All of the above
3. Black plastic bag is for
 - a. General waste
 - b. Gauge
 - c. Broken glass articles
 - d. Radioactive waste
4. Packing for autoclave is not done by
 - a. Linen
 - b. Paper
 - c. Cardboard boxes
 - d. Plastic
5. Medical triage is not labelled as
 - a. Red/priority
 - b. Yellow/priority 2
 - c. Green/priority 3
 - d. Blue/black dead shift immediately to hospital
6. Epilepsy is
 - a. Neurological disease
 - b. Cardiovascular disease
 - c. Gastric disease
 - d. Respiratory disease
7. Safety feature for anaesthesia machine is
 - a. Pin index
 - b. Pressure of oxygen
 - c. Pressure of N₂O
 - d. Hanger yoke
8. Meninges are the covering of
 - a. Brain
 - b. Lungs
 - c. Heart
 - d. None of the above
9. Prevention of health care workers is not done by
 - a. By avoiding needle stick injury
 - b. Immunization against hepatitis B
 - c. Sharing needle
 - d. Using barrier precautions
10. Gall bladder is situated
 - a. Under the lungs
 - b. Under the liver
 - c. Under the intestines
 - d. Under the pancreas
11. Arterial pressure is expressed as
 - a. mm of Hg
 - b. cm of water
 - c. mg/kg/body wt
 - d. Degree centigrade
12. Arterial spasm is caused by
 - a. Thiopentone sodium
 - b. Propofol
 - c. Ketamine
 - d. Scoline
13. Lasix is used for
 - a. DM
 - b. PPH
 - c. Shivering
 - d. anti hypertensive drugs
14. Autoclave sterilization is done at
 - a. 121 degree celsius for 15 min
 - b. 126degree celsius for 15 min
 - c. 134degree celsius for 15 min
 - d. 140 degree celsius for 15 min

Regn. No.....

Paper Code: BOT - 302

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2016
SPECIAL PROCEDURES & STERILIZATION TECHNIQUES
PAPER SECOND

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagram wherever necessary

A : Short answer questions:

(7 x 9 = 63)

Briefly discuss:

- Q. 1.** Craniotomy : indications and procedure.
- Q. 2.** Split skin grafting.
- Q. 3.** Various incisions for thoracotomy.
- Q. 4.** Special precautions in paediatric surgical procedures.
- Q. 5.** P.C.N.L.
- Q. 6.** Autoclaving
- Q. 7.** Laparoscopic instruments required for cholecystectomy and their usage.
- Q. 8.** Abdominal incisions (draw diagram) with specific indications for each incision.
- Q. 9.** Classify sutures and mention uses.

Regn. No.....

Paper Code: BOT - 302

B.O.T. THIRD YEAR EXAMINATION, JUNE/JULY - 2016
SPECIAL PROCEDURES & STERILIZATION TECHNIQUES
PAPER SECOND (MCQ)

Time allotted for MCQ- 15 minutes

B : MCQs (Single response type):

(½ x 14= 7)

Select the most appropriate answer and encircle the alphabet against it

1. The smallest size Foley's catheter available is :
 - a. 6
 - b. 8
 - c. 10
 - d. 12
2. What size i.v. cannula is used in a newborn baby?
 - a. 14 G
 - b. 20 G
 - c. 22 G
 - d. 24 G
3. For a central line insertion in the neck the position of the patient should be:
 - a. Head down 15° with head extension
 - b. Head up 15° with head extension
 - c. Head down 15° with head flexion
 - d. Head up 15° with head flexion
4. Which of the following instruments is used for creating pneumo-peritoneum by the open technique?
 - a. Hasson cannula
 - b. Veress needle
 - c. Spinal needle
 - d. Suction/irrigation cannula
5. Which of the following instruments is NOT used in neurosurgery?
 - a. Bipolar forceps
 - b. Dandi artery forceps
 - c. Desjardines forceps
 - d. deBakey's forceps
6. Which instrument is used to separate and spread the ribs apart in thoracotomy?
 - a. Mastoid retractor
 - b. Beauvais retractor
 - c. Deaver retractor
 - d. Finochietto retractor
7. Which of the following is made of latex rubber?
 - a. T-tube
 - b. Abdominal drain
 - c. Surgical gloves
 - d. Malecot's catheter
8. Which type of renal stone cannot be treated by E.S.W.L.?
 - a. Cysteine stones
 - b. Urate stones
 - c. Oxalate stones
 - d. Phosphate stones
9. The irrigation fluid used in T.U.R.P. operation is :
 - a. Normal saline
 - b. Glycine
 - c. Sterile water
 - d. Ringer's lactate
10. In laparoscopic cholecystectomy the gall bladder is extracted through :
 - a. Epigastric port
 - b. Umbilical port
 - c. Subcostal port
 - d. Small Transverse incision
11. Which blade is used for I & D in an abscess?
 - a. No. 25
 - b. No. 22
 - c. No. 15
 - d. No. 11
12. How many ports are used for a laparoscopic appendectomy?
 - a. Three (All 10 mm. ports)
 - b. Three (one 10 mm. and two 5 mm.)
 - c. Four (one 10 mm. and three 5 mm.)
 - d. Four (two 10mm. and two 5 mm.)
13. A bridge is required in a :
 - a. End ileostomy
 - b. Loop ileostomy
 - c. End colostomy
 - d. Loop colostomy
14. The shelf life of a unit of packed RBC is :
 - a. 1 week
 - b. 1 fortnight
 - c. 1 month
 - d. 1 year

Regn. No.....

Paper Code: BOT - 301

B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)
THIRD YEAR EXAMINATION, JUNE/JULY - 2017
ADVANCED AND CRITICAL CARE
PAPER FIRST

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagrams wherever necessary

A : Short answer questions:

(7 x 9 = 63)

- Q. 1. Describe in detail layout of CSSD.
- Q. 2. How will you take care of a patient on ventilator?
- Q. 3. How will you zero intra-arterial BP? What are the indication, contraindication and site of arterial cannulation?
- Q. 4. How will you sterilize ICU?
- Q. 5. Describe the various routes of nutrition of patient in ICU.
- Q. 6. Enumerate the steps of cardiac compression and ventilation during CPR in ICU.
- Q. 7. Draw a well labelled diagram of LMA.
- Q. 8. Describe Mallampati Grading.
- Q. 9. Describe rapid sequence intubation.

B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)
THIRD YEAR EXAMINATION, JUNE/JULY - 2017
ADVANCED AND CRITICAL CARE
PAPER FIRST (MCQ)

Time allotted for MCQ - 15 minutes

B : MCQs (Single response type):

(½ x 14 = 7)

Select the most appropriate answer and encircle the alphabet against it.

1. Supraglottic device includes:
 - a. LMA
 - b. ETT
 - c. Tracheostomy tube
 - d. None of above
2. Nutritional support/day in ICU is:
 - a. 30 kcal/day
 - b. 10 kcal/day
 - c. 100 kcal/day
 - d. 200 kcal/day
3. Anuria is defined as urine output:
 - a. Less than 400 ml/day
 - b. 1000 ml/day
 - c. 1500 ml/day
 - d. 2000 ml/day
4. Drug used in CPR is:
 - a. Adrenaline
 - b. Noradrenaline
 - c. Dopamine
 - d. Dobutamine
5. Normal pH of humans is:
 - a. 7.1 - 7.2
 - b. 7.3 - 7.4
 - c. 7.5 - 7.7
 - d. Below 7.0
6. Dosage of dopamine is:
 - a. 1-15 mcg/kg/min
 - b. 1-15 mcg/kg/hour
 - c. 15-30 mcg/kg/min
 - d. 15-30 mcg/kg/hour
7. Mouth wash recommended in patient on ventilator is:
 - a. Chlorhexidine
 - b. Cetrimide
 - c. Alcohol
 - d. Mint
8. Current used for defibrillation is:
 - a. 200 j
 - b. 400 j
 - c. 100 j
 - d. 500 j
9. Cidex is:
 - a. Aldehyde
 - b. Alcohol
 - c. Cetrimide
 - d. Soap
10. Normal body temperature is:
 - a. 36.9 °C
 - b. 41 °C
 - c. 44 °C
 - d. 27 °C
11. Color of Carbon di oxide cylinder is:
 - a. Black
 - b. Blue
 - c. Grey
 - d. Orange
12. Flowmeters are part of:
 - a. High pressure system
 - b. Intermediate pressure system
 - c. Low pressure system
 - d. None
13. Murphy eye is a part of:
 - a. ETT
 - b. Guedel airway
 - c. Laryngoscope
 - d. Circuit
14. Thymol as preservative is present in:
 - a. Sodalime
 - b. Halothane
 - c. ETT
 - d. Reservoir bag

Regn. No.....

Paper Code: BOT - 302

B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)
THIRD YEAR EXAMINATION, JUNE/JULY - 2017
SPECIAL PROCEDURES & STERILIZATION TECHNIQUES

[Time allotted: Three hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagrams wherever necessary

A : Short answer questions:

(7 x 9 = 63)

- Q. 1. How to take care of laparoscopic instruments?
- Q. 2. Name the instruments used in tonsillectomy with notes on their function.
- Q. 3. Describe briefly steps of laparoscopic cholecystectomy.
- Q. 4. Describe briefly role of an O.T technician.
- Q. 5. Enumerate different methods of sterilization.
- Q. 6. Steps taken during caesarian section to reduce bleeding.
- Q. 7. What are the components of Ringer's Lactate? What are the advantages and disadvantages of this fluid?
- Q. 8. What are the advantages and disadvantages of laparoscopic surgery?
- Q. 9. How to manage biomedical waste from a HIV positive patient? Mention only the important steps.

B.Sc. MEDICAL TECHNOLOGY (OPERATION THEATRE)
THIRD YEAR EXAMINATION, JUNE/JULY - 2017
SPECIAL PROCEDURES & STERILIZATION TECHNIQUES
(MCQ)

Time allotted for MCQ - 15 minutes

B : MCQs (Single response type):

(½ x 14= 7)

Select the most appropriate answer and encircle the alphabet against it

1. What is the best replacement fluid for a bleeding patient?
 - a. Packed RBC
 - b. FFP
 - c. Liquid plasma
 - d. Haemaccel
2. What is the better method to sterilize laparoscopic Maryland forceps?
 - a. Autoclaving
 - b. Cidex
 - c. Absolute alcohol
 - d. Formalin chamber
3. Which is the ideal position of a patient for laparoscopic appendectomy?
 - a. Right up, head up
 - b. Right up, head down
 - c. Left up, head down
 - d. None of the above
4. Which is the content of the Calot's triangle?
 - a. Common hepatic duct
 - b. Cystic artery
 - c. Cystic duct
 - d. All of the above
5. In waste management infected dressing material is disposed in which container?
 - a. Blue
 - b. White
 - c. Yellow
 - d. Black
6. A spinal trauma patient should be shifted to the stretcher from the site of injury in:
 - a. Head down position
 - b. Left lateral position
 - c. Log rolling position
 - d. Standing position
7. What is the first step in controlling a bleeding cystic artery?
 - a. Compress with a mop
 - b. Try to catch with artery forceps
 - c. Cautery
 - d. Clip application
8. Which is the commonest incision for open appendectomy?
 - a. Lower midline
 - b. Grid iron incision
 - c. Pfannenstiel incision
 - d. Right paramedian incision
9. Which size IV cannula should be used for fluid transfusion in adults for hypovolemic shock?
 - a. 22 G
 - b. 24 G
 - c. 16 G
 - d. 20 G
10. What is the source of energy in harmonic scalpel?
 - a. Rapidly oscillating electric current
 - b. Ultrasonic vibration
 - c. Infrared waves
 - d. None of the above
11. Which is mostly commonly used method to sterilize sharp instruments in OT?
 - a. Incineration
 - b. Cidex
 - c. Autoclaving
 - d. Boiling
12. Which fluid should not be used in patients with renal failure?
 - a. DNS
 - b. 5% dextrose
 - c. Ringer's lactate
 - d. 10% dextrose
13. What is the best primary dressing for grafts?
 - a. Gauze pad
 - b. Tulle gras
 - c. Cotton
 - d. None of the above
14. Packed Foley catheter is sterilized with:
 - a. Ethylene oxide
 - b. Autoclaving
 - c. Gamma radiation
 - d. Boiling