CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

AHE005-BSS DIPLOMA IN OPERATION THEATRE TECHNOLOGY

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE005-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Noun is a _____ Word

2) Vowels are _____ in number

3) When _____ you meet him.

4) He is _____ the room.

5) Be back _____

6) She ran _____ the road

7) You can enlarge a document using _____

8) In Windows _____ function key used to get help

9) The extension of word file is _____

10) ALU stands for _____

11) Shortcut Key for Cut is _____

12) The bird _____ made his nest by itself

13) _____ and _____ sauces used in pasta

14) He _____ studying in our Institute

15) This is _____ food

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define the adjectives words?
2) What is meant by verb?
3) Define abstract noun?
4) What is meant by common Gender?
5) Desktop
6) Explain windows explorer
7) What is the difference between Notepad and Wordpad
8) Explain any five options for the format 'menu'
9) Clauses
10) Save
11) Adverbs
12) Auto text
13) Define WWW in internet.
14) Define Conjunciton
15) Explain cut, copy and paste?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Explain types of computer
2) Classification of the computer
3) Calculator
4) Airbrush
5) Word area
6) CPU
7) Define A, B, C in CPR?
8) Checking an injured (or) ill child (or) infant

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Write a letter to your father asking permission join the N.C.C?
2) Explain the MS word and its applications
3) Introduction to Pagemaker? Explain
4) Explain the classification of computer
5) Write briefly about elements of design?

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AHE005-BSS DIPLOMA IN OPERATION THEATRE TECHNOLOGY

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE005-02 ANATOMY & PHYSIOLOGY

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ tubes are excreating the fluid by the kidney into the bladder

2) Growth hormone is secreted by _____

3) The red pigment present in RBC _____

4) _____ is the basic unit of nervous system

5) Basic functional unit of kidney is _____

6) Movable bone of skull is known as _____

7) _____ and _____ harmones are produced by the ovary

8) Dense connective tissue is called _____

9) The inner part of kidney is named _____

10) Outer Covering of heart is _____

11) Respiratory Rate is _____

12) Bluish discoloration of skin _____

13) The adult heart weighs about _____ gm

14) The largest sesamoid bone is our body is _____

15) The shoulder joint is the _____ type of joint

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Functions of Saliva
2) Tidal volume
3) Fertilization
4) Gall bladder
5) Pituitary adenoma
6) Tissues
7) Saliva
8) Floating ribs
9) Voluntary muscles
10) Liver
11) What are all the layers of heart?
12) Define Pranayama
13) Brain stem
14) Peristalsis
15) Define Pathya?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Intestine
2) Medulla oblangata
3) Blood vessels
4) Hypertension
5) Knee Joint
6) Blood Group
7) Write types of positions?
8) Abdomen obstruction?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain about Thyroid glands with the help of neat diagram
2) Explain the functions and classification of Nervous system
3) What are all the components of blood? Explain the functions of each one.
4) Explain the pulmonary circulation
5) Explain the technical aspects of CT brain?

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AHE005-BSS DIPLOMA IN OPERATION THEATRE TECHNOLOGY

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE005-03 ANAESTHESIA DRUGS,EQUIPMENT & SPECIAL OPERATION THEATRE TRAY SET UP

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ pumps is used for rapid transfusion of blood

2) The experienced technician will learn to select the _____ and _____ of endotracheal tubes

3) Vaporisers are two types _____ and _____

4) Urethra! dilators also called _____

5) During Operations the sister or nurse who is act to as the _____

6) _____ is used for amputation operation

7) Example for General anaesthesia _____

8) Colour of O2 cylinder is _____

9) Color of N2O cylinder is _____

10) Induction of anesthesia _____ and _____ is used.

11) Inj _____ used during Revarsal.

12) Total spinal is the commonest complication of _____

13) Oxygen cylinders used in operation theatres are size _____.

14) The TEE probe is sterilized by _____

15) _____ is used to remove stone in the kidney.

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Rotaxmeters?
2) Tray set up for operations on the breast?
3) Ligatures?
4) Requirements for local or regional anesthesia
5) General surgery
6) Neostigmine
7) Diathermy
8) Rotameters
9) Define Sterilisation
10) Write about purpose of operation bed
11) Intubation
12) Laparotomy
13) Rotameters?
14) Preparation of patients for anaesthesia?
15) Protection of patient in surgery?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Uterine packing forceps?
2) Facial surgeries?
3) Anaesthesia Machine Circuit?
4) Lateral position?
5) Draw with neat diagram of anaesthesia
6) Write about Lithotomy position
7) Use of Airway
8) Stages of anesthesia

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe the general set of instruments
2) Briefly explain about heart Surgery
3) Describe different steps of general anesthesia
4) Explain pre anesthesia check up
5) Intravenous anesthesia

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AHE005-BSS DIPLOMA IN OPERATION THEATRE TECHNOLOGY

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE005-04 SURGICAL PROCEDURES (DISINFECTION ON STERILIZATION) CARE OF PATIENT

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Hand should be washed throughly for about _____ minutes

2) _____ is the process of disinfection by exposure to the fumes of vapourised germicide

3) _____ is generally used to prevent the spread of microorganisms through the respiratory tract

4) _____ are changed after each contact with the bodily discharge

5) The circuit used for pediatric general anaesthesia _____

6) _____ is used for delivering inhalation anaesthesia during surgery.

7) _____ is the pressure in high pressure system of a Boyle's machine.

8) Disinfection means _____

9) Bronchoscopy means _____

10) Scapel handle is used for _____ purpose.

11) Pasturization is _____ process.

12) _____ hemorrhage spurts.

13) Iodophone trade name is _____

14) Hemorrhagic shock measured by _____

15) RL is crystalloid solution.

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Sterilization?
2) Droplet infection?
3) Packing of instruments?
4) SPO2 monitor?
5) Monitoring
6) Chemical hazards
7) Dissecting forceps
8) Disinfection
9) Induction agents.
10) Endotracheal tube.
11) Asepsis
12) Artificial ventilation
13) Boiling
14) Peripheral nerve stimulator
15) Bronchospasm

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Cerebral hypoxia?
2) Sequence of cardio pulmonary resucitation?
3) Pre operative care for bowl surgery patient
4) Psycological support of surgical patient.
5) Mapelson D circuit.
6) Fissurectomy set.
7) Hypovolemia
8) Treatment of metabolic acidosis

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe the signs and symptoms of cardiac arrest?
2) Describe the pre and intra operative care of cardiac patients?
3) Explain the general surgical instruments
4) What is shock? Describe different types of shock.
5) Jackson Rees circuit

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AHE005-BSS DIPLOMA IN OPERATION THEATRE TECHNOLOGY

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

AHE005-05 OPERATION THEATRE TECHNIQUES

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Walls and floors are commonly made with _____ materials

2) _____ nurse checks and arranges the instruments

3) _____ means destroying all the pathogenic organisms.

4) _____ is the study of tissues.

5) Hand washing prevent _____

6) Rectal tempearature cannot be taken in _____

7) Hand should be washed thoroghly for about _____

8) Scrub person _____ team member.

9) HEPA can restrict _____ air particle.

10) Spine surgery in _____ position.

11) Scalpel blades are _____ numbers

12) _____ position used for heart surgery.

13) C-Arm is and _____ unit for confirming bone position in orthopedic surgery.

14) _____ retractor is used for thyroid ectomy.

15) Fat hex of surgery is _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Oestophagoscopy?
2) Asepsis
3) Disinfection
4) CPR
5) Define Mask technique
6) Define Asepsis
7) OT Fumigation
8) Scrub person
9) Surgical assistant
10) Operating Light
11) Autoclave
12) Gastroscope Fiberoptic
13) Abbreviations - POC
14) Define specimen?
15) Define disinfection?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Write about emergency medicality
2) Write about knowledge of CPR
3) Write about post operative care
4) POP application technique
5) Cross Matching
6) Write about disposal of biological waste?
7) Write about responsibilities of ORA in pre-medication room?
8) Write about muscle relaxants?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain some operation theatre techniqes
2) Explain operative room emergency
3) Describe scrub persons duty.
4) Draw a neat diagram of OT table, explain different functions.
5) Describe the responsibilities of circulating nurse during a major operation?

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AHE005-BSS DIPLOMA IN OPERATION THEATRE TECHNOLOGY

TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

AHE005-11 CARE OF PATIENT UNDERGOING SURGERY (PRE AND INTRA OPERATIVE) AFTER C

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ acquired by ingestion of food

2) IPR means _____

3) The entire skull, fore head, ears and neck are cleaned for _____ surgery

4) _____ is to measure the O2 saturation in blood.

5) _____ is the pressure in high pressure system of a Boyle's machine.

6) Stopping of heart during CABG is called _____

7) Care of _____ for prolong surgery.

8) _____ used for pneumothorax treatment.

9) _____ bacteria grows in the absence of oxygen

10) The process of conversion of a spore into vegetative cell under suitable condition is known as _____

11) Microorganisms are divided into _____ & _____

12) _____ is a process by which an article, surface or medium is made free of all microorganisms.

13) Lasix is used for _____

14) Cardiac monitoring used for _____

15) Spinal anesthesia does not cause _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Post operative?
2) CSSD
3) Pre-medication
4) Disinfection
5) Muscle relaxants
6) Induction agents.
7) SPO2 monitor.
8) Adrenaline
9) Osteoporosis
10) Hemiplegia
11) Fasciotomy
12) role of theatre assistant
13) Pneumoretinopexy
14) Asepsis
15) Define Capanography?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Care of instrument after surgery?
2) Boyle's apparatus?
3) Care of instruments
4) Post operative care of gynaecological operation
5) Psychological support of surgical patient.
6) Premedication and Intracare of plastic surgery.
7) Resuscitatation devices.
8) Explain ABG?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe the pre and intra operative care of cardiac patients?
2) Discuss the pre & intra operative care of Pediatric patient and write a note on Gudle's airway.
3) Explain the disinfection and cleaning of defibrillator, heart lung machine, ventilator and its tubings.
4) Explain cataract operation
5) Explain briefly temperature monitoring?

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AHE005-BSS DIPLOMA IN OPERATION THEATRE TECHNOLOGY

TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

AHE005-12 SURGICAL PROCEDURES AND MONITORING OPERATION THEATRE ETHICS,SAFETY F

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ instrument is used to hold bulky amount of tissue

2) _____ equipment is used for cardioversion.

3) _____ drug is used to treat Bradycardia.

4) _____ is the equipment used to cut and coagulate the tissue during surgery.

5) _____ is used for standard fumigation of OT.

6) _____ are used to hold soft tissue.

7) ESI means _____

8) Probe is used to open _____

9) Lead is used to prevent _____

10) Left instruments in abdomen are _____ negligence.

11) Ionizing radiation is used in radiotherapy department.

12) O2 be used with caution in _____

13) Scrubbing before surgery is done _____

14) Swabs and sponges are counted _____

15) Catgut is made from _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Legal issues in O.T?
2) Infection control?
3) Function of air conditioning system?
4) Safety for operation room?
5) Technique?
6) Tubectomy?
7) Dopamine?
8) Body mechanic
9) Ventilator
10) Dopamine.
11) What is surgical procedure?
12) Screening test OT
13) Define Shivering?
14) ABBREVATION - ABG
15) ABBREVATION - ICP

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Role of Theatre assistant in operating room?
2) Legal issues in O.T
3) Electrical circuit
4) Disposal of OT waste
5) Setting of Electro cautary during surgery
6) Ventilator
7) Catheterization
8) CO2 laser

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe about fire and safety in the operation theatre?
2) Discribe the anatomy of spinal cord and brief about spinal anaesthesia?
3) Describe about fire and safety in the operation theatre
4) Explain different modes of ventilator.
5) Explain briefly LSCS tray set up?

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AHE005-BSS DIPLOMA IN OPERATION THEATRE TECHNOLOGY

TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

AHE005-13 INFECTION CONTROL IN OPERATION THEATRE ROLE OF THE THEATRE ASSISTANT

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ system used for killing the microorganisms in OT

2) Sterilizing time is _____ minutes at a pressure of _____ lbs with a temperature of _____ 0F

3) The Minimal nill oral time for a adult patient before surgery is _____

4) _____ is used to remove the secretion from the oral cavity.

5) _____ is used to visualize the stomach and duodenum.

6) The trail of anaesthesia is analgesia, amnesia and _____

7) _____ is the sterilized steaming method.

8) _____ is the operating department of assistant.

9) _____ Controls dust flow restriction.

10) Sterilizing time is _____ at a pressure of _____ psi with a temperature of _____

11) _____ is used to clean OT floor.

12) EO gas can be used for _____

13) Carbolic acid can be used for all except _____

14) Quantity of gas should be _____ liter.

15) Autoclave sterilization is done at _____ temperature and time.

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Preparation for ether soap?
2) Infection?
3) Screening test?
4) Infection
5) Diposal of OT waste
6) Catheterization
7) Gamma rays
8) Incineration
9) Standard precautions
10) Sterile technique
11) Write about record keeping in CSSD?
12) Define chemical methods of sterilization?
13) ABBREVATION - IV
14) ABBREVATION - LP
15) ABBREVATION - PE

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Mechanical ventilation?
2) Emergency drugs
3) Psycological support of Surgical patient.
4) Orthosurgery tray set up.
5) sterilization of endoscope after use.
6) Fomites
7) Closed gloving technique
8) Explain theatre sterile supply unit?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain the role of a nurse conducting the major operation?
2) Describe the different types and uses of artery forceps?
3) Describe about the prevention of contamination in operation room
4) Describe post operative wound infection
5) Write briefly autoclave methods?