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

AHE009-CT SCAN TECHNICIAN

ONE YEAR EXAMINATION NOVEMBER-2025

AHE009-01 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) He _____ well in the stage.

2) When _____ you meet him.

3) Write to the abbreviation ICS.

4) _____ is father of computer

5) MS word is used for _____

6) RAM stands for _____

7) Use _____ to change the settings, both hardware and softw

8) She ran _____ the road

9) _____ key is also used to select spelling command

10) The short cut for Italic is _____

11) _____ generation computer used to integrated circuits.

12) Ctrl + S is the short cut for _____

13) He is running _____ the road.

14) www. means _____

15) Mouse is an _____ device.

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

1) Define definite Article?
2) What are the types of Gender?
3) What is meant by strong verbs?
4) Verb
5) Memory unit
6) Attrib
7) E-mail use?
8) Storage device
9) Prepare a leave application to your head of department
10) What is colour?
11) Write about characteritics of computer?
12) Define Conjunciton
13) Define Verb
14) What are Question tags?
15) Informal letter

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

1) Define kinds of nous?
2) Define common conjunctions
3) Shift+functions of the keys
4) Male reproductive system
5) Pituitary gland
6) What are the characteritics of computer?
7) Define Hybrid computers
8) What are the advantages and disadvantages of non- verbal communication?

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) Write what in complex sentence
3) Write about the conversation to two person?
4) Explain structure of computer
5) Write briefly about Hardware and Software with example?

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AHE009-CT SCAN TECHNICIAN

ONE YEAR EXAMINATION NOVEMBER-2025

AHE009-02 ANATOMY AND 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) Strokes are classified in to _____ types

2) A skill fracture is most clinically significant of the _____

3) Strokes are classified in to _____ types

4) I sichemic strokes account for about _____ %

5) An abnormal focal enlargement of an artery is called _____

6) The sum of vital capacity and residual volume of a lung is called _____

7) _____ may indicate active bleeding

8) The functional unit of kidney is known as _____

9) _____ is the innermost nervous coat of eyeball

10) _____ is the largest part of the brain

11) The unit of nervous system is known as _____

12) The average weight of kidney is _____

13) The largest bone in human body is _____

14) _____ gland is known as master gland

15) Inner layer of meninges is known as _____

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

1) Insular ribbon sign
2) Basilar thrombosis
3) Hip bone
4) Electron
5) Define Anatomy.
6) Intraccrebral Hemorrhage
7) Sperm
8) Glomerular filtration rate
9) Cranial nerves
10) Cerebrum
11) Cardiac cycle
12) Osteogenis
13) Cysticercosis
14) Thyroid tumors
15) Urinary Bladder

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

1) Differentiate between right and left lungs
2) Define Sperm.
3) Chromosome
4) Respiration
5) Functions of spinal cord
6) Structure of heart
7) Pelvis
8) Neurons

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

1) Describe the mechanism of hearing with the help of a neat diagram
2) Explain the bones involved in the formation of hip joint.
3) Describe urinary system with the help of diagram
4) Explain the structure and functions of blood
5) Describe human brain with the help of its diagram.

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AHE009-CT SCAN TECHNICIAN

ONE YEAR EXAMINATION NOVEMBER-2025

AHE009-03 PHYSICS OF RADIODIAGNOSIS AND EQUIPMENT

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) CT scanner has invented by _____

2) _____ is known as the father of radiology

3) _____ device changes AC to DC

4) The number of protein in the nucleus of an atom is called _____

5) Unit of exposure is _____

6) _____ is ability to do work

7) Protein bears _____

8) _____ sequence helps for early detection of stroke

9) MRI has been developed first after the successful nuclear magnetic experiment of _____

10) An example for rare earth screen is _____

11) In urology CT scan used to the dignosis of _____

12) Computer axial scan is invented by _____

13) Colour of safe light is _____

14) The main merit of MRI is _____

15) X-ray therapy, tubes operate at _____

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

1) Hard ware consideration?
2) Gas ionization detectors?
3) Display console?
4) Frilling of a film
5) EB CT
6) Watt
7) Safety equipment
8) Slip ring technology
9) MRI
10) Dark room
11) K space
12) MRCP
13) Proton density
14) Collimator
15) Intensifying screens

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

1) Data acquisition systems
2) CT detectors
3) What is digital radiography?
4) Mylogram?
5) Properties of Alpha, Beta and gamma rays
6) MRI in human diseases
7) Differentiate with CT and Spiral CT
8) Different types of Collimeters used in CT scanner

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

1) Differentiate with CT and Spiral CT?
2) Advantages of spinal CT
3) What is rectifyer, rectification and types of rectification?
4) Describe the intruction with matter
5) Explain urinary system and its functions

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AHE009-CT SCAN TECHNICIAN

ONE YEAR EXAMINATION NOVEMBER-2025

AHE009-04 CT SCAN TECHNOLOGY AND PATIENT MANAGEMENT

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) The CT value of blood is _____

2) Infection of Alveoli is called _____

3) CT lumber spine slice thickness is _____

4) The condition of enlargement of ventricle is _____

5) The shape of EDH is _____

6) Tuber colona means _____

7) The collimators used in the detector array is called _____

8) Otitis media is the infection of _____

9) Ideal slice thickness for HRCT chest is _____

10) The excess collection of CSF in the ventricles is known as _____

11) Enter the patient data by pressing the _____ key

12) Three different angles can be chosen in relation to the _____ line

13) Visuallization of cardiac structure are more clarity done by _____ machine

14) I.V. contrast is given increase of _____ mass

15) CT scan lumbar spine, slice thickness is _____

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

1) Medulla blastema?
2) Patient Exposure?
3) Ring arte fact
4) Cysticerosis.
5) Metastasis with examples.
6) Spatial resolution.
7) Epistaxis.
8) Direct prone coronal
9) Demonstrate of the CT Scan pancreas
10) CT Scan of Tibia
11) Spatial resolution
12) Ring artefact
13) Neumocephalus
14) Movement artifact
15) Patient positing for CT brain

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

1) Types of atrophy?
2) CTscan of C. spine
3) Angio tomography
4) What is HRCT- Thorax?
5) What is meant by Atrophy?
6) The various types of renal disease
7) Patient preparation in case of CT Abelomen
8) Filiming CT Chest

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

1) Describe the positioning procedure of CT abdomen?
2) Explain about "Pseudo Tumor"?
3) Describe the main principles of CT
4) Describe the production and controlling of x-ray
5) Explain about the measures for radiation safety