



BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, PROMOTED BY GOVERNMENT OF INDIA
CENTRAL BOARD OF EXAMINATIONS
BSS NATIONAL VOCATIONAL EDUCATION MISSION

AHE010-MRI SCAN TECHNICIAN

ONE YEAR EXAMINATION NOV-2015

AHE010-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 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

1 x 10 = 10

- 1) Hewell in the stage.
- 2) 'Speak' is verb.
- 3) Babu is as Ramu.
- 4) Write to the abbreviation ICS.
- 5) Out look Express is a.....
- 6) are where the text is typed
- 7) In Ms Excel individual file is known as
- 8) Corel draw is based on.....graphics.
- 9) -----is the first computer programmer
- 10) She is B.sc graduate

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Define kinds of noun?
- 2) Define what is demonstrative pronoun?
- 3) Define collective noun?
- 4) What is meant by Feminine Gender?
- 5) Del Command
- 6) Explain Header and Footer
- 7) Adjectives
- 8) Adverbs
- 9) Status bar
- 10) What is RAM ?

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

- 1) Explain few sentences using "do/does"?
- 2) Explain few sentences using "may, among, before"?
- 3) Define kinds of participle?
- 4) Define degrees of comparison
- 5) What are the difference between i. COPY , Xcopy , Diskcopy and Move.
- 6) Classification of the computer
- 7) Title bar
- 8) Calculator

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

- 1) Describe MS Windows
- 2) What are the advantages of using computer in the Modern Field.
- 3) Explain 'Mail Merge'
- 4) Explain the keyboard
- 5) Write briefly about elements of design?



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ONE YEAR EXAMINATION NOV-2015

AHE010-02 ANATOMY & PHYSIOLOGY

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 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

1 x 10 = 10

- 1) The largest cartilage in our body is
- 2) The lungs are covered by a covering called
- 3) Total number of bones in human body is
- 4) Heart's normal weight is
- 5) Basic functional unit of kidney is
- 6) Sututres are seeing in between
- 7) Small sac under the liver which stores bile is known as.....
- 8) The first cervical vertebrae is called _____.
- 9) Each cardiac cycle is completed within sec.
- 10) Arthritis is consider as disorder.

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Stomach
- 2) Liver cirrohsis
- 3) Cell
- 4) Voluntary muscles
- 5) The membrane of the brain
- 6) Liver
- 7) Scapula
- 8) Define Pancha Kosha
- 9) Autonomic nervous system
- 10) Diffusion

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

- 1) Cardiac cycle
- 2) Brain ?
- 3) Mechanism of Respiration
- 4) Pelvis
- 5) The curves of the vertebral column
- 6) Urinary system
- 7) Composition & functions of blood
- 8) The cells

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

- 1) Detail about the organs of the digestive system
- 2) Explain about the structure and functions of the liver with the help of neat diagram
- 3) Explain about pituitary gland and its functions
- 4) Describe the process of digestion
- 5) Describe the male reproductive system



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AHE010-MRI SCAN TECHNICIAN

ONE YEAR EXAMINATION NOV-2015

AHE010-03 GENERAL RADIOGRAPHY

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 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

1 x 10 = 10

- 1) The main merit of TLD is.....
- 2) Film badge is used to.....radiation
- 3) In urology medicine CT Scan is applied for the diagnosis of.....
- 4) X-ray therapy tubes operate at
- 5) The number of electrons in an atom is equal to the number of
- 6) LOG means
- 7) In peadiatrics department CT scan used in the diagnosis of and
- 8) The PH of developers is .
- 9) In mammography is used as the target
- 10) X-ray therapy, tubes operate at

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Film density
- 2) Activator
- 3) Spiral CT
- 4) Soft X-rays
- 5) X-ray tube
- 6) Attenuation
- 7) Absorbed dose
- 8) Conductors
- 9) Emulsion layer
- 10) Detectors

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

- 1) Procedure in CT abdomen
- 2) Principles of CT
- 3) Resolution
- 4) Compton effects
- 5) Procedure of CT abdomen
- 6) Attenuation
- 7) Awoide types
- 8) Properties of X-ray

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

- 1) Describe about contrast media
- 2) Explain about USG
- 3) Explain characteristic curve
- 4) Explain about procedure in CT brain
- 5) Explain the procedure of CT spiral



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AHE010-MRI SCAN TECHNICIAN

ONE YEAR EXAMINATION NOV-2015

AHE010-04 MRI SCAN TECHNOLOGY

TIME: 3 Hours

Marks: 100

INSTRUCTIONS

- * 33 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

1 x 10 = 10

- 1) The important pulse sequences in application are,and.....
- 2) Radio activity can be measured in.....
- 3) The radiation dose limit is.....
- 4) All the waves travel with.....
- 5) is a non invasive imaging procedure with no risk of radiation
- 6) The fear of closed spaces is called
- 7) The expanded form of MRI is
- 8) The cryogen used in super conductors is
- 9) MRI equipment contains, and
- 10) Functional MRI uses technique

II. DEFINE THE FOLLOWING

2 x 10 = 20

- 1) Imaging
- 2) Paramagnetism
- 3) Exposure time
- 4) Scatter radiation
- 5) Lamer frequency
- 6) Patient area
- 7) Dimagnet
- 8) K- space
- 9) CMR
- 10) Resonance

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

- 1) MRI in human diseases
- 2) Spin-Echo sequence
- 3) Super conducting magnets
- 4) Advantages of MRA
- 5) NMR parameters
- 6) Magnetic field
- 7) 3.0 Tesla of MRI
- 8) Instrumentation in MRI safety

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

- 1) Explain MR angiography technique
- 2) Safety devices and its application in MRI
- 3) Describe encoding and image formation of MRI
- 4) Explain about positioning in MRI, image weighting and contrast in MRI
- 5) Explain the different types of coils used in MRI