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BTSC X Ray Techn.

Previous Year Paper
26 Apr, 2025 Shift 1





Bihar Technical Service Commission

बिहार तकनीकी सेवा आयोग

Roll No	
Participant Name	
Test Center Name	
Test Date	26/04/2025
Test Time	9:00 AM - 11:00 AM
Post Name	X Ray Technician (05/2025)

Section : Domain Knowledge

Q.1 What is DC in electricity?

- Ans
- 1. Doped current
 - 2. Diagonal current
 - 3. Deviational current
 - 4. Direct current

Question Type : MCQ

Question ID : 441009202458

Option 1 ID : 441009796651

Option 2 ID : 441009796650

Option 3 ID : 441009796652

Option 4 ID : 441009796653

Chosen Option : 4

Q.2 All of the following are the naturally occurring radionuclides found in the environment, EXCEPT:

- Ans
- 1. Radium
 - 2. Technetium
 - 3. Uranium
 - 4. Radon

Question Type : MCQ

Question ID : 441009207198

Option 1 ID : 441009814768

Option 2 ID : 441009814770

Option 3 ID : 441009814767

Option 4 ID : 441009814769

Chosen Option : 3

Q.3 What is the movement of the foot in a downward motion away from the body known as?

Ans 1. Plantar flexion

2. Dorsi flexion

3. Eversion

4. Inversion

Question Type : MCQ

Question ID : 441009202534

Option 1 ID : 441009796896

Option 2 ID : 441009796895

Option 3 ID : 441009796897

Option 4 ID : 441009796898

Chosen Option : 1

Q.4 The utricle and saccule are situated in?

Ans 1. Heart

2. Ears

3. Lungs

4. Eyes

Question Type : MCQ

Question ID : 441009201871

Option 1 ID : 441009794670

Option 2 ID : 441009794673

Option 3 ID : 441009794671

Option 4 ID : 441009794672

Chosen Option : 2

Q.5 Which is a radiographic examination that uses barium sulfate as a contrast agent to visualise the oesophagus, stomach, and small intestine, including the ileo-caecal junction?

Ans 1. Barium enema

2. Barium suppository

3. Barium laxative

4. Barium meal

Question Type : MCQ

Question ID : 441009207504

Option 1 ID : 441009816012

Option 2 ID : 441009816014

Option 3 ID : 441009816015

Option 4 ID : 441009816013

Chosen Option : 4

Q.6 A KUB X-ray is primarily used to evaluate all of the following structures, EXCEPT?

- Ans 1. Bladder
 2. Kidneys
 3. Ureter
 4. Urethra

Question Type : MCQ

Question ID : 441009207411

Option 1 ID : 441009815638

Option 2 ID : 441009815636

Option 3 ID : 441009815637

Option 4 ID : 441009815639

Chosen Option : 4

Q.7 Bremsstrahlung is also known as:

- Ans 1. Joining radiation
 2. Braking radiation
 3. Combining radiation
 4. Freezing radiation

Question Type : MCQ

Question ID : 441009207286

Option 1 ID : 441009815104

Option 2 ID : 441009815107

Option 3 ID : 441009815105

Option 4 ID : 441009815106

Chosen Option : 2

Q.8 Which lobe of the brain is mainly involved in decision-making, planning, problem-solving, attention, emotional control, and voluntary movement?

- Ans 1. Occipital lobe
 2. Temporal lobe
 3. Parietal lobe
 4. Frontal lobe

Question Type : MCQ

Question ID : 441009201899

Option 1 ID : 441009794783

Option 2 ID : 441009794785

Option 3 ID : 441009794784

Option 4 ID : 441009794782

Chosen Option : 4

Q.9 Which square-shaped muscle is the main muscle causing pronation of the hand?

- Ans 1. Flexor carpi ulnaris
 2. Pronator quadratus
 3. Flexor carpi radialis
 4. Pronator teres

Question Type : MCQ

Question ID : 441009202519

Option 1 ID : 441009796849

Option 2 ID : 441009796846

Option 3 ID : 441009796848

Option 4 ID : 441009796847

Chosen Option : 2

Q.10 Which of the following occurs when part of the stomach protrudes through an opening in the diaphragm into the chest cavity?

- Ans 1. Volvulus
 2. Intussusception
 3. Hirschsprung disease
 4. Hiatal hernia

Question Type : MCQ

Question ID : 441009207470

Option 1 ID : 441009815874

Option 2 ID : 441009815873

Option 3 ID : 441009815872

Option 4 ID : 441009815875

Chosen Option : 3

Q.11 Which of the following are the bone-forming cells that create and maintain bone tissue?

- Ans 1. Osteoclasts
 2. Chondroblasts
 3. Osteoblasts
 4. Chondrocytes

Question Type : MCQ

Question ID : 441009202770

Option 1 ID : 441009797737

Option 2 ID : 441009797740

Option 3 ID : 441009797738

Option 4 ID : 441009797739

Chosen Option : 1

Q.12 Which of the following structures is located in the inner layer of the eye?

- Ans 1. Iris
 2. Retina
 3. Cornea
 4. Sclera

Question Type : MCQ
Question ID : 441009201887
Option 1 ID : 441009794735
Option 2 ID : 441009794734
Option 3 ID : 441009794737
Option 4 ID : 441009794736
Chosen Option : 2

Q.13 All of the following are the properties of X-ray, EXCEPT:

- Ans 1. X-rays deviate from their path in the absence of an electromagnetic field
 2. X-rays can penetrate many materials, including living tissue
 3. X-rays travel in a straight line, at the speed of light
 4. X-rays are ionising radiation, meaning they can remove electrons from atoms

Question Type : MCQ
Question ID : 441009207247
Option 1 ID : 441009814970
Option 2 ID : 441009814967
Option 3 ID : 441009814969
Option 4 ID : 441009814968
Chosen Option : 1

Q.14 Which is the primary reflex centre for vital functions like breathing, heart rate regulation, and blood pressure control?

- Ans 1. Cerebellum
 2. Medulla oblongata
 3. Hypothalamus
 4. Cerebrum

Question Type : MCQ
Question ID : 441009202891
Option 1 ID : 441009798152
Option 2 ID : 441009798153
Option 3 ID : 441009798150
Option 4 ID : 441009798151
Chosen Option : 2

Q.15 Radium series ends with which of the following isotopes?

- Ans 1. Stable Thorium-230
 2. Stable Radon-222
 3. Stable Lead-206
 4. Stable Uranium-238

Question Type : MCQ
Question ID : 441009207066
Option 1 ID : 441009814210
Option 2 ID : 441009814209
Option 3 ID : 441009814207
Option 4 ID : 441009814208
Chosen Option : 2

Q.16 Fluid accumulation in the abdomen detected in the X-ray abdomen is suggestive of?

- Ans 1. Pneumoperitoneum
 2. Cardiac tamponade
 3. Pleural effusion
 4. Ascites

Question Type : MCQ
Question ID : 441009207418
Option 1 ID : 441009815665
Option 2 ID : 441009815666
Option 3 ID : 441009815667
Option 4 ID : 441009815664
Chosen Option : 4

Q.17 Which of the following is a crucial white matter structure in the brain that acts as a major highway for motor and sensory information?

- Ans 1. Pia matter
 2. Internal capsule
 3. Foramen of Luschka
 4. Arachnoid matter

Question Type : MCQ
Question ID : 441009202589
Option 1 ID : 441009797062
Option 2 ID : 441009797060
Option 3 ID : 441009797059
Option 4 ID : 441009797061
Chosen Option : 4

Q.18 Which of the following hormones are produced in the testes in males, in the ovaries in females and in adrenal glands in both males and females?

- Ans 1. Somatostatins
 2. Melatonin
 3. Androgens
 4. Somatotrophins

Question Type : MCQ
Question ID : 441009201882
Option 1 ID : 441009794717
Option 2 ID : 441009794715
Option 3 ID : 441009794714
Option 4 ID : 441009794716
Chosen Option : 3

Q.19 X-rays are also known as?

- Ans 1. Roentgen rays
 2. Curie rays
 3. Faraday rays
 4. Michael rays

Question Type : MCQ
Question ID : 441009207350
Option 1 ID : 441009815395
Option 2 ID : 441009815392
Option 3 ID : 441009815393
Option 4 ID : 441009815394
Chosen Option : 1

Q.20 Which of the following is a mental faculty that causes an individual to act, react and interact according to an innate pattern of behaviours?

- Ans 1. Regression
 2. Repression
 3. Cognition
 4. Conation

Question Type : MCQ
Question ID : 441009201894
Option 1 ID : 441009794765
Option 2 ID : 441009794764
Option 3 ID : 441009794762
Option 4 ID : 441009794763
Chosen Option : 3

Q.21 Smooth muscle is found in all of the following organs, EXCEPT:

- Ans 1. Stomach
 2. Heart
 3. Intestines
 4. Bladder

Question Type : MCQ

Question ID : 441009203223

Option 1 ID : 441009799471

Option 2 ID : 441009799470

Option 3 ID : 441009799472

Option 4 ID : 441009799473

Chosen Option : 2

Q.22 All of the following are true regarding Hard X-rays, EXCEPT?

- Ans 1. Greater penetrating ability
 2. Higher energy, typically above 10 keV
 3. Shorter wavelengths, around 0.1 Å
 4. Longer wavelengths, above 4 Å

Question Type : MCQ

Question ID : 441009207387

Option 1 ID : 441009815542

Option 2 ID : 441009815540

Option 3 ID : 441009815541

Option 4 ID : 441009815543

Chosen Option : 3

Q.23 Which radioisotope generator produces technetium-99m?

- Ans 1. Polonium-13 generator
 2. Curium-26 generator
 3. Strontium-90 generator
 4. Molybdenum-99 generator

Question Type : MCQ

Question ID : 441009207145

Option 1 ID : 441009814528

Option 2 ID : 441009814529

Option 3 ID : 441009814530

Option 4 ID : 441009814527

Chosen Option : 1



Q.24 All of the following structures are best visualised by a barium meal, EXCEPT:

- Ans 1. Oesophagus
 2. Stomach
 3. Colon
 4. Duodenum

Question Type : MCQ

Question ID : 441009207449

Option 1 ID : 441009815788

Option 2 ID : 441009815789

Option 3 ID : 441009815791

Option 4 ID : 441009815790

Chosen Option : 3

Q.25 How many lobes does the right and left lungs have?

- Ans 1. Right lung -3 and left lung -3 lobes
 2. Right lung -2 and left lung -3 lobes
 3. Right lung -3 and left lung -2 lobes
 4. Right lung -2 and left lung -2 lobes

Question Type : MCQ

Question ID : 441009202875

Option 1 ID : 441009798089

Option 2 ID : 441009798087

Option 3 ID : 441009798086

Option 4 ID : 441009798088

Chosen Option : 3

Q.26 What is the atomic weight of radium?

- Ans 1. 416.025 atomic mass units
 2. 302.025 atomic mass units
 3. 226.025 atomic mass units
 4. 106.025 atomic mass units

Question Type : MCQ

Question ID : 441009207025

Option 1 ID : 441009814050

Option 2 ID : 441009814049

Option 3 ID : 441009814048

Option 4 ID : 441009814047

Chosen Option : 3



Q.27 Ampere is the unit of which of the following parameters?

- Ans
- 1. Light intensity
 - 2. Resistance
 - 3. Voltage
 - 4. Electric current

Question Type : MCQ

Question ID : 441009202412

Option 1 ID : 441009796521

Option 2 ID : 441009796519

Option 3 ID : 441009796518

Option 4 ID : 441009796520

Chosen Option : 4

Q.28 What is the product of bombarding aluminium-27 with alpha particles?

- Ans
- 1. Calcium-22
 - 2. Potassium-41
 - 3. Phosphorus-30
 - 4. Sodium-12

Question Type : MCQ

Question ID : 441009207214

Option 1 ID : 441009814839

Option 2 ID : 441009814841

Option 3 ID : 441009814842

Option 4 ID : 441009814840

Chosen Option : 4

Q.29 Who is considered the Father of Magnetism?

- Ans
- 1. William Gilbert
 - 2. William Harvey
 - 3. William Wundt
 - 4. William Einthoven

Question Type : MCQ

Question ID : 441009202429

Option 1 ID : 441009796563

Option 2 ID : 441009796560

Option 3 ID : 441009796562

Option 4 ID : 441009796561

Chosen Option : 1



Q.30 What is the standard unit used to measure sound intensity?

- Ans 1. Rontgen
 2. Curie
 3. Becquerel
 4. Decibel

Question Type : MCQ
Question ID : 441009201829
Option 1 ID : 441009794512
Option 2 ID : 441009794510
Option 3 ID : 441009794511
Option 4 ID : 441009794513
Chosen Option : 4

Q.31 Which of the following is a U-shaped bone in the neck?

- Ans 1. Malleus bone
 2. Hyoid bone
 3. Pisiform bone
 4. Ischium bone

Question Type : MCQ
Question ID : 441009201877
Option 1 ID : 441009794695
Option 2 ID : 441009794697
Option 3 ID : 441009794696
Option 4 ID : 441009794694
Chosen Option : 2

Q.32 Which pathway specifically carries visual information from the retina via the lateral geniculate nucleus to the primary visual cortex?

- Ans 1. Somatosensory Radiation
 2. Motor Radiation
 3. Auditory Radiation
 4. Optic Radiation

Question Type : MCQ
Question ID : 441009202595
Option 1 ID : 441009797085
Option 2 ID : 441009797086
Option 3 ID : 441009797084
Option 4 ID : 441009797083
Chosen Option : 4

Q.33 Bombarding Boron-10 with neutrons produces which of the following particles?

- Ans 1. Radioactive carbon-14
 2. Radioactive aurum-33
 3. Radioactive sodium-21
 4. Radioactive hydrogen-4

Question Type : MCQ

Question ID : 441009207205

Option 1 ID : 441009814797

Option 2 ID : 441009814796

Option 3 ID : 441009814795

Option 4 ID : 441009814798

Chosen Option : 1

Q.34 A barium meal study shows that a characteristic "bird-beak" or "rat-tail" appearance is often observed at the esophagogastric junction. What is the probable diagnosis?

- Ans 1. Gastroschisis
 2. Achalasia cardia
 3. Atrial septal defect
 4. Ventricular septal defect

Question Type : MCQ

Question ID : 441009207440

Option 1 ID : 441009815752

Option 2 ID : 441009815755

Option 3 ID : 441009815753

Option 4 ID : 441009815754

Chosen Option : 2

Q.35 The primary SI unit for measuring pressure is:

- Ans 1. Lux
 2. Newton
 3. Pascal
 4. Candela

Question Type : MCQ

Question ID : 441009201838

Option 1 ID : 441009794545

Option 2 ID : 441009794542

Option 3 ID : 441009794544

Option 4 ID : 441009794543

Chosen Option : 3

Q.36 Which of the following is the lateral aperture between the fourth ventricle and the subarachnoid space?

- Ans 1. Foramen of Luschka
 2. Cerebral aqueduct
 3. Foramen of Magendie
 4. Foramen of Monro

Question Type : MCQ

Question ID : 441009201865

Option 1 ID : 441009794646

Option 2 ID : 441009794648

Option 3 ID : 441009794647

Option 4 ID : 441009794649

Chosen Option : 2

Q.37 The half-life of radioactive cobalt-60 is:

- Ans 1. 2.32 years
 2. 3.11 years
 3. 1.24 years
 4. 5.27 years

Question Type : MCQ

Question ID : 441009207088

Option 1 ID : 441009814292

Option 2 ID : 441009814293

Option 3 ID : 441009814291

Option 4 ID : 441009814294

Chosen Option : 4

Q.38 Where is Broca's area situated in the brain?

- Ans 1. Parietal lobe
 2. Temporal lobe
 3. Occipital lobe
 4. Frontal lobe

Question Type : MCQ

Question ID : 441009201577

Option 1 ID : 441009793513

Option 2 ID : 441009793512

Option 3 ID : 441009793514

Option 4 ID : 441009793515

Chosen Option : 4

Q.39 Which of the following arteries supplies blood to the stomach?

- Ans 1. Carotid artery
 2. Gastric artery
 3. Coronary artery
 4. Phenic artery

Question Type : MCQ
Question ID : 441009202852
Option 1 ID : 441009798002
Option 2 ID : 441009798004
Option 3 ID : 441009798003
Option 4 ID : 441009798005
Chosen Option : 4

Q.40 X-rays interact with matter through the following mechanisms, EXCEPT:

- Ans 1. Photoelectric effect
 2. Pair production
 3. Bernoulli effect
 4. Compton scattering

Question Type : MCQ
Question ID : 441009207238
Option 1 ID : 441009814931
Option 2 ID : 441009814933
Option 3 ID : 441009814934
Option 4 ID : 441009814932
Chosen Option : 3

Q.41 Radium (Ra) belongs to which of the following groups of the periodic table?

- Ans 1. Group 4
 2. Group 2
 3. Group 3
 4. Group 1

Question Type : MCQ
Question ID : 441009207008
Option 1 ID : 441009813982
Option 2 ID : 441009813980
Option 3 ID : 441009813981
Option 4 ID : 441009813979
Chosen Option : 1



Q.42 What are the wavelengths of Hard X-rays?

- Ans
- 1. Larger than 10 nanometres
 - 2. Shorter than 4 nanometres
 - 3. Shorter than 0.1 nanometres
 - 4. Larger than 4 nanometres

Question Type : MCQ

Question ID : 441009207379

Option 1 ID : 441009815508

Option 2 ID : 441009815511

Option 3 ID : 441009815510

Option 4 ID : 441009815509

Chosen Option : 1

Q.43 Which of the following bones is also known as the kneecap?

- Ans
- 1. Talus
 - 2. Hamate
 - 3. Patella
 - 4. Calcaneus

Question Type : MCQ

Question ID : 441009201860

Option 1 ID : 441009794629

Option 2 ID : 441009794627

Option 3 ID : 441009794628

Option 4 ID : 441009794626

Chosen Option : 3

Q.44 The yard is a unit used to measure which of the following parameters?

- Ans
- 1. Voltage
 - 2. Distance
 - 3. Speed
 - 4. Resistance

Question Type : MCQ

Question ID : 441009201825

Option 1 ID : 441009794494

Option 2 ID : 441009794497

Option 3 ID : 441009794496

Option 4 ID : 441009794495

Chosen Option : 2



Q.45 Barium swallows are used to diagnose all of the following conditions, EXCEPT?

- Ans 1. Hirschsprung disease
 2. Oesophageal spasms
 3. Hiatal hernia
 4. Gastroesophageal reflux disease

Question Type : MCQ
Question ID : 441009207429
Option 1 ID : 441009815710
Option 2 ID : 441009815708
Option 3 ID : 441009815709
Option 4 ID : 441009815711
Chosen Option : 3

Q.46 Which of the following organs mainly regulates the body's circadian rhythm?

- Ans 1. Thymus gland
 2. Pineal gland
 3. Adrenal cortex
 4. Adrenal medulla

Question Type : MCQ
Question ID : 441009201587
Option 1 ID : 441009793563
Option 2 ID : 441009793562
Option 3 ID : 441009793560
Option 4 ID : 441009793561
Chosen Option : 2

Q.47 All of the following are the changes caused by the stimulation of the sympathetic nervous system, EXCEPT?

- Ans 1. Fastens digestion
 2. Increased heart rate
 3. Vasoconstriction
 4. Increased breathing rate

Question Type : MCQ
Question ID : 441009201639
Option 1 ID : 441009793777
Option 2 ID : 441009793775
Option 3 ID : 441009793778
Option 4 ID : 441009793776
Chosen Option : 1

Q.48 Which is a membrane-bound organelle in cells that functions as the cell's 'digestive system'?

- Ans 1. Ribosomes
 2. Lysosomes
 3. Mitochondria
 4. Golgi apparatus

Question Type : MCQ

Question ID : 441009202822

Option 1 ID : 441009797888

Option 2 ID : 441009797886

Option 3 ID : 441009797889

Option 4 ID : 441009797887

Chosen Option : 2

Q.49 Voltage is also known as:

- Ans 1. magnetic radiation
 2. atomic radiation
 3. potential difference
 4. light intensity flow

Question Type : MCQ

Question ID : 441009202450

Option 1 ID : 441009796635

Option 2 ID : 441009796634

Option 3 ID : 441009796636

Option 4 ID : 441009796633

Chosen Option : 3

Q.50 Which is the flat muscle of the cheek that draws the cheeks in towards the teeth in chewing and in forcible expulsion of air from the mouth?

- Ans 1. Masseter
 2. Pterygoid
 3. Temporalis
 4. Buccinator

Question Type : MCQ

Question ID : 441009202493

Option 1 ID : 441009796773

Option 2 ID : 441009796774

Option 3 ID : 441009796775

Option 4 ID : 441009796772

Chosen Option : 1

Q.51 All of the following are examples of radionuclides, EXCEPT:

- Ans 1. Cesium-137
 2. Radium-226
 3. Strontium-90
 4. Argon-27

Question Type : MCQ

Question ID : 441009207191

Option 1 ID : 441009814733

Option 2 ID : 441009814731

Option 3 ID : 441009814734

Option 4 ID : 441009814732

Chosen Option : 4

Q.52 1 becquerel (Bq) equals to:

- Ans 1. 6.663×10^{-11} curie (Ci)
 2. 2.703×10^{-11} curie (Ci)
 3. 8.783×10^{-11} curie (Ci)
 4. 9.614×10^{-11} curie (Ci)

Question Type : MCQ

Question ID : 441009207099

Option 1 ID : 441009814337

Option 2 ID : 441009814338

Option 3 ID : 441009814335

Option 4 ID : 441009814336

Chosen Option : 2

Q.53 Which muscle lies on the posterior aspect of the humerus?

- Ans 1. Biceps brachii
 2. Brachialis
 3. Triceps brachii
 4. Brachioradialis

Question Type : MCQ

Question ID : 441009202500

Option 1 ID : 441009796800

Option 2 ID : 441009796803

Option 3 ID : 441009796801

Option 4 ID : 441009796802

Chosen Option : 3



Q.54 Which of the following structures cannot be visualised by a barium enema?

- Ans 1. Sigmoid colon
 2. Rectum
 3. Descending colon
 4. Esophagus

Question Type : MCQ
Question ID : 441009207517
Option 1 ID : 441009816071
Option 2 ID : 441009816068
Option 3 ID : 441009816070
Option 4 ID : 441009816069
Chosen Option : 4

Q.55 An increase in the anteroposterior diameter of the chest is known as:

- Ans 1. Lordosis
 2. Scoliosis
 3. Barrel chest
 4. Kyphosis

Question Type : MCQ
Question ID : 441009202777
Option 1 ID : 441009797759
Option 2 ID : 441009797760
Option 3 ID : 441009797761
Option 4 ID : 441009797758
Chosen Option : 3

Q.56 What is the atomic number of Radium?

- Ans 1. 44
 2. 55
 3. 77
 4. 88

Question Type : MCQ
Question ID : 441009207014
Option 1 ID : 441009814003
Option 2 ID : 441009814004
Option 3 ID : 441009814005
Option 4 ID : 441009814006
Chosen Option : 2



Q.57 Which of the following cranial nerves is mainly responsible for hearing and balance?

- Ans 1. Oculomotor nerve
 2. Acoustic nerve
 3. Abducens nerve
 4. Accessory nerve

Question Type : MCQ

Question ID : 441009203233

Option 1 ID : 441009799511

Option 2 ID : 441009799513

Option 3 ID : 441009799510

Option 4 ID : 441009799512

Chosen Option : 2

Q.58 Which electrode of the 12-lead ECG will be placed in the fifth intercostal space, left mid-axillary line?

- Ans 1. V4
 2. V3
 3. V5
 4. V6

Question Type : MCQ

Question ID : 441009202844

Option 1 ID : 441009797975

Option 2 ID : 441009797974

Option 3 ID : 441009797976

Option 4 ID : 441009797977

Chosen Option : 4

Q.59 All of the following are the features of Roentgen rays, EXCEPT:

- Ans 1. they travel in straight lines
 2. they can pass through a vacuum
 3. they do not carry an electric charge
 4. they require a medium to travel

Question Type : MCQ

Question ID : 441009207356

Option 1 ID : 441009815416

Option 2 ID : 441009815418

Option 3 ID : 441009815419

Option 4 ID : 441009815417

Chosen Option : 4

Q.60 Which are particle accelerators where electrons are accelerated to near the speed of light in a circular path?

- Ans 1. Synchrotrons
 2. Syncytiotrophoblast
 3. Prions
 4. Trophoblasts

Question Type : MCQ
Question ID : 441009207271
Option 1 ID : 441009815073
Option 2 ID : 441009815072
Option 3 ID : 441009815074
Option 4 ID : 441009815071
Chosen Option : 3

Q.61 Which muscle fibres originate from the clavicle, acromion process and spine of the scapula and radiate over the shoulder joint?

- Ans 1. Sartorius
 2. Deltoid
 3. Gluteus
 4. Vastus

Question Type : MCQ
Question ID : 441009201843
Option 1 ID : 441009794565
Option 2 ID : 441009794563
Option 3 ID : 441009794562
Option 4 ID : 441009794564
Chosen Option : 2

Q.62 Radium series starts with:

- Ans 1. Thorium-230
 2. Uranium-238
 3. Lead-206
 4. Radon-222

Question Type : MCQ
Question ID : 441009207074
Option 1 ID : 441009814240
Option 2 ID : 441009814239
Option 3 ID : 441009814242
Option 4 ID : 441009814241
Chosen Option : 4

Q.63 Magnetism is primarily caused by the:

- Ans
- 1. movement of thermal charges
 - 2. movement of chemical liquids
 - 3. movement of electric charges
 - 4. movement of water molecules

Question Type : MCQ

Question ID : 441009202424

Option 1 ID : 441009796541

Option 2 ID : 441009796542

Option 3 ID : 441009796540

Option 4 ID : 441009796543

Chosen Option : 4

Q.64 Which of the following knee X-ray views is also known as the patellofemoral joint view?

- Ans
- 1. Weight-bearing view
 - 2. Sunrise view
 - 3. Anteroposterior view
 - 4. Lateral view

Question Type : MCQ

Question ID : 441009207399

Option 1 ID : 441009815591

Option 2 ID : 441009815590

Option 3 ID : 441009815588

Option 4 ID : 441009815589

Chosen Option : 1

Q.65 All of the following muscles are included in the Quadriceps femoris muscle, EXCEPT?

- Ans
- 1. Gluteus maximus
 - 2. Vastus lateralis
 - 3. Vastus medialis
 - 4. Rectus femoris

Question Type : MCQ

Question ID : 441009201846

Option 1 ID : 441009794575

Option 2 ID : 441009794576

Option 3 ID : 441009794577

Option 4 ID : 441009794574

Chosen Option : 4

Q.66 Which of the following organs functions as a crucial link between the nervous and endocrine systems?

- Ans 1. Corpus callosum
 2. Hypothalamus
 3. Medulla oblongata
 4. Aqueduct sylvius

Question Type : MCQ

Question ID : 441009201626

Option 1 ID : 441009793725

Option 2 ID : 441009793726

Option 3 ID : 441009793723

Option 4 ID : 441009793724

Chosen Option : 4

Q.67 Which of the following is produced commercially for medical and industrial use, and the main purpose is to diagnose and treat cancers of the thyroid gland?

- Ans 1. Nitrogen-117
 2. Helium-87
 3. Iron-271
 4. Iodine-131

Question Type : MCQ

Question ID : 441009207168

Option 1 ID : 441009814637

Option 2 ID : 441009814636

Option 3 ID : 441009814635

Option 4 ID : 441009814638

Chosen Option : 4

Q.68 Which of the following blood vessels is formed by the junction of the right and left brachiocephalic veins, which drain the head, neck, and upper limbs?

- Ans 1. Superior vena cava
 2. Carotid arteries
 3. Coronary arteries
 4. Inferior vena cava

Question Type : MCQ

Question ID : 441009201880

Option 1 ID : 441009794706

Option 2 ID : 441009794709

Option 3 ID : 441009794708

Option 4 ID : 441009794707

Chosen Option : 2

Q.69 Which is a type of radiation therapy that involves placing radioactive materials inside or near a cancerous tumour?

- Ans
- 1. Acupuncture
 - 2. Teletherapy
 - 3. Brachytherapy
 - 4. Acupressure

Question Type : MCQ

Question ID : 441009207113

Option 1 ID : 441009814397

Option 2 ID : 441009814396

Option 3 ID : 441009814395

Option 4 ID : 441009814398

Chosen Option : 2

Q.70 The medulla oblongata is formed from?

- Ans
- 1. Myelencephalon
 - 2. Diencephalon
 - 3. Mesencephalon
 - 4. Metencephalon

Question Type : MCQ

Question ID : 441009201869

Option 1 ID : 441009794665

Option 2 ID : 441009794664

Option 3 ID : 441009794662

Option 4 ID : 441009794663

Chosen Option : 1

Q.71 Which of the following lobes of the cerebral cortex processes the visual information from the eyes?

- Ans
- 1. Temporal lobe
 - 2. Occipital lobe
 - 3. Frontal lobe
 - 4. Parietal lobe

Question Type : MCQ

Question ID : 441009202584

Option 1 ID : 441009797040

Option 2 ID : 441009797042

Option 3 ID : 441009797041

Option 4 ID : 441009797039

Chosen Option : 2

Q.72 What is the energy range of X-rays?

- Ans 1. 1 eV to 10 keV
 2. 100 eV to 100 keV
 3. 10 eV to 10 keV
 4. 1 eV to 1 keV

Question Type : MCQ

Question ID : 441009202401

Option 1 ID : 441009796479

Option 2 ID : 441009796481

Option 3 ID : 441009796480

Option 4 ID : 441009796478

Chosen Option : 1

Q.73 The motor speech area is also known as?

- Ans 1. Kocher's area
 2. Broca's area
 3. Wernicke's area
 4. Erb's area

Question Type : MCQ

Question ID : 441009201904

Option 1 ID : 441009794804

Option 2 ID : 441009794805

Option 3 ID : 441009794802

Option 4 ID : 441009794803

Chosen Option : 3

Q.74 Which of the following is the primary muscle of respiration?

- Ans 1. Diaphragm
 2. Pterygoid
 3. Scalene
 4. Trapezius

Question Type : MCQ

Question ID : 441009202865

Option 1 ID : 441009798051

Option 2 ID : 441009798052

Option 3 ID : 441009798050

Option 4 ID : 441009798053

Chosen Option : 2



Q.75 Radium series is also known as:

- Ans 1. Cobalt series
 2. Mercury series
 3. Uranium series
 4. Curium series

Question Type : MCQ

Question ID : 441009207044

Option 1 ID : 441009814123

Option 2 ID : 441009814124

Option 3 ID : 441009814126

Option 4 ID : 441009814125

Chosen Option : 3

Q.76 Which of the following structures regulates body temperature, hunger and sleep?

- Ans 1. Hypothalamus
 2. Thalamus
 3. Metathalamus
 4. Epithalamus

Question Type : MCQ

Question ID : 441009202582

Option 1 ID : 441009797034

Option 2 ID : 441009797031

Option 3 ID : 441009797033

Option 4 ID : 441009797032

Chosen Option : 1

Q.77 Which machine converts electrical energy into mechanical energy?

- Ans 1. Electric motor
 2. Electric conductor
 3. Generator
 4. Electric kettle

Question Type : MCQ

Question ID : 441009202442

Option 1 ID : 441009796601

Option 2 ID : 441009796602

Option 3 ID : 441009796603

Option 4 ID : 441009796604

Chosen Option : 1



Q.78 The SI unit of force is?

- Ans 1. Lux
 2. Newton
 3. Candela
 4. Lumen

Question Type : MCQ
Question ID : 441009202385
Option 1 ID : 441009796446
Option 2 ID : 441009796447
Option 3 ID : 441009796445
Option 4 ID : 441009796444
Chosen Option : 2

Q.79 All of the following are units of measuring radioactivity, EXCEPT?

- Ans 1. Gray
 2. Sievert
 3. Candela
 4. Becquerel

Question Type : MCQ
Question ID : 441009202381
Option 1 ID : 441009796436
Option 2 ID : 441009796437
Option 3 ID : 441009796438
Option 4 ID : 441009796435
Chosen Option : 3

Q.80 What is indicated by the QRS complex in the ECG?

- Ans 1. Ventricular repolarisation
 2. Atrial depolarisation
 3. Ventricular depolarisation
 4. Atrial repolarisation

Question Type : MCQ
Question ID : 441009202842
Option 1 ID : 441009797968
Option 2 ID : 441009797967
Option 3 ID : 441009797969
Option 4 ID : 441009797966
Chosen Option : 3



Q.81 What is the frequency of the X-rays?

- Ans
- 1. 1 petahertz to 10 petahertz
 - 2. 30 exahertz to 100 exahertz
 - 3. 30 petahertz to 30 exahertz
 - 4. 100 exahertz to 300 exahertz

Question Type : MCQ
Question ID : 441009207261
Option 1 ID : 441009815031
Option 2 ID : 441009815033
Option 3 ID : 441009815032
Option 4 ID : 441009815034
Chosen Option : 1

Q.82 Which is the most commonly used radioisotope in teletherapy?

- Ans
- 1. Manganese-32
 - 2. Copper-62
 - 3. Cobalt-60
 - 4. Magnesium-32

Question Type : MCQ
Question ID : 441009207129
Option 1 ID : 441009814470
Option 2 ID : 441009814469
Option 3 ID : 441009814467
Option 4 ID : 441009814468
Chosen Option : 3

Q.83 The most common surgical procedure to repair a hiatal hernia is:

- Ans
- 1. Duhamel Surgery
 - 2. Ramstedt Pyloromyotomy
 - 3. Fontan Procedure
 - 4. Nissen Fundoplication

Question Type : MCQ
Question ID : 441009207490
Option 1 ID : 441009815961
Option 2 ID : 441009815960
Option 3 ID : 441009815963
Option 4 ID : 441009815962
Chosen Option : 2

Q.84 What is the wavelength of X-rays?

- Ans
- 1. 10 to 100 nanometres
 - 2. 1000 to 10000 nanometres
 - 3. 0.01 to 10 nanometres
 - 4. 100 to 1000 nanometres

Question Type : MCQ
Question ID : 441009202388
Option 1 ID : 441009796457
Option 2 ID : 441009796459
Option 3 ID : 441009796456
Option 4 ID : 441009796458
Chosen Option : 3

Q.85 The "coiled spring" or "cup-shaped" filling defect in the colon visualised during a barium enema is suggestive of:

- Ans
- 1. Gastroschisis
 - 2. Intussusception
 - 3. Perineal Fistula
 - 4. Omphalocele

Question Type : MCQ
Question ID : 441009207457
Option 1 ID : 441009815820
Option 2 ID : 441009815822
Option 3 ID : 441009815823
Option 4 ID : 441009815821
Chosen Option : 2

Q.86 Which of the following statements is TRUE about the posteroanterior view of chest X-ray?

- Ans
- 1. The X-ray beam passes from one side of the body to the other
 - 2. The X-ray beam passes from the front to the back of the body.
 - 3. The X-ray beam passes from the back to the front of the body
 - 4. The X-ray beam is taken at an angle, used to better visualise joints

Question Type : MCQ
Question ID : 441009207403
Option 1 ID : 441009815606
Option 2 ID : 441009815604
Option 3 ID : 441009815605
Option 4 ID : 441009815607
Chosen Option : 3

Q.87 Which of the following cell organelles is mainly responsible for the majority of the cell's energy production through cellular respiration?

- Ans 1. Mitochondria
 2. Ribosomes
 3. Lysosomes
 4. Golgi apparatus

Question Type : MCQ

Question ID : 441009202812

Option 1 ID : 441009797862

Option 2 ID : 441009797861

Option 3 ID : 441009797863

Option 4 ID : 441009797864

Chosen Option : 1

Q.88 Which isotope is primarily used for imaging the thyroid gland to assess its size, shape and function?

- Ans 1. Iodine-345
 2. Iodine-234
 3. Iodine-456
 4. Iodine-123

Question Type : MCQ

Question ID : 441009207223

Option 1 ID : 441009814877

Option 2 ID : 441009814876

Option 3 ID : 441009814878

Option 4 ID : 441009814875

Chosen Option : 4

Q.89 The retrocardiac mass, often with an air-fluid level, is the feature of:

- Ans 1. Femoral hernia
 2. Ventral hernia
 3. Hiatal hernia
 4. Inguinal hernia

Question Type : MCQ

Question ID : 441009207481

Option 1 ID : 441009815927

Option 2 ID : 441009815926

Option 3 ID : 441009815924

Option 4 ID : 441009815925

Chosen Option : 3

Q.90 Which of the following Brodmann areas is associated with the primary motor cortex?

- Ans 1. Brodmann area 42
 2. Brodmann area 4
 3. Brodmann area 30
 4. Brodmann area 51

Question Type : MCQ
Question ID : 441009202618
Option 1 ID : 441009797173
Option 2 ID : 441009797171
Option 3 ID : 441009797172
Option 4 ID : 441009797174
Chosen Option : 2

Q.91 The "quality" of Roentgen rays is mainly affected by all of the following factors, EXCEPT?

- Ans 1. Wavelength
 2. Tube Potential
 3. Material Density
 4. Patient Age

Question Type : MCQ
Question ID : 441009207365
Option 1 ID : 441009815454
Option 2 ID : 441009815452
Option 3 ID : 441009815453
Option 4 ID : 441009815455
Chosen Option : 4

Q.92 Which is a proteolytic enzyme?

- Ans 1. Trypsin
 2. Lactase
 3. Sucrase
 4. Amylase

Question Type : MCQ
Question ID : 441009202832
Option 1 ID : 441009797929
Option 2 ID : 441009797928
Option 3 ID : 441009797927
Option 4 ID : 441009797926
Chosen Option : 1



Q.93 5-hydroxytryptamine is the chemical name of which of the following neurotransmitters?

- Ans 1. Dopamine
 2. Serotonin
 3. Histidine
 4. Glutamate

Question Type : MCQ

Question ID : 441009201615

Option 1 ID : 441009793680

Option 2 ID : 441009793681

Option 3 ID : 441009793682

Option 4 ID : 441009793683

Chosen Option : 1

Q.94 All of the following movements are possible at the elbow joint, EXCEPT?

- Ans 1. Circumduction
 2. Flexion
 3. Extension
 4. Pronation

Question Type : MCQ

Question ID : 441009201848

Option 1 ID : 441009794584

Option 2 ID : 441009794582

Option 3 ID : 441009794583

Option 4 ID : 441009794585

Chosen Option : 4

Q.95 What is the location of the apical pulse?

- Ans 1. The left fifth intercostal space
 2. The left second intercostal space
 3. The right fourth intercostal space
 4. The right third intercostal space

Question Type : MCQ

Question ID : 441009202837

Option 1 ID : 441009797949

Option 2 ID : 441009797946

Option 3 ID : 441009797948

Option 4 ID : 441009797947

Chosen Option : 1



Q.96 What is the atomic number of curium?

- Ans 1. 96
 2. 81
 3. 49
 4. 57

Question Type : MCQ
Question ID : 441009207034
Option 1 ID : 441009814086
Option 2 ID : 441009814085
Option 3 ID : 441009814083
Option 4 ID : 441009814084
Chosen Option : 1

Q.97 Which of the following is a fluid-filled, spiral-shaped cavity found in the inner ear?

- Ans 1. Cochlea
 2. Sclera
 3. Retina
 4. Pinna

Question Type : MCQ
Question ID : 441009201685
Option 1 ID : 441009793951
Option 2 ID : 441009793954
Option 3 ID : 441009793952
Option 4 ID : 441009793953
Chosen Option : 1

Q.98 The primary hormone secreted from the substantia nigra is:

- Ans 1. Dobutamine
 2. Dopamine
 3. Epinephrine
 4. Norepinephrine

Question Type : MCQ
Question ID : 441009203209
Option 1 ID : 441009799418
Option 2 ID : 441009799419
Option 3 ID : 441009799420
Option 4 ID : 441009799421
Chosen Option : 2



Q.99 Which cell organelle is responsible for breaking down various biological materials, including cellular waste and debris, and even the cell itself during apoptosis?

- Ans
- 1. Mitochondria
 - 2. Lysosomes
 - 3. Ribosomes
 - 4. Golgi apparatus

Question Type : MCQ

Question ID : 441009202827

Option 1 ID : 441009797909

Option 2 ID : 441009797906

Option 3 ID : 441009797908

Option 4 ID : 441009797907

Chosen Option : 2

Q.10 What is produced when an electron decelerates in the electric field of an atomic nucleus, releasing a continuous spectrum of X-rays?

- Ans
- 1. Callista radiation
 - 2. Carlo Matteucci radiation
 - 3. Einthoven radiation
 - 4. Bremsstrahlung radiation

Question Type : MCQ

Question ID : 441009207297

Option 1 ID : 441009815159

Option 2 ID : 441009815158

Option 3 ID : 441009815157

Option 4 ID : 441009815156

Chosen Option : 4

