## PROVISIONAL ANSWER KEY

Question Paper Code: 67/2016/OL Category Code: 084/2015 Exam: **Technical Assistant Xray** Medium of Question: **English** Date of Test 22-08-2016 Alphacode Question1:-On the banks of which river the famous city of Kolkata situated? Correct Answer:- Option-B Question2:-In which state of India, the Kakrapara project is located? Correct Answer:- Option-C Question3:-Which mountain ranges separate North India from the Deccan? Correct Answer:- Option-A Question4:-How many National Waterways are there in India? Correct Answer:- Option-D Question5:-The Governor - General of India at the time of the foundation of Indian National Congress? Correct Answer:- Option-C Question6:-Which was the only session of Indian National Congress presided by Gandhi? Correct Answer:- Option-C Question7:-Who was the first to describe the mutiny of 1857 as the first war of Indian Independence? A:-Subash Chandra Bose Correct Answer:- Option-B Question8:-The founder of Satya Shodhak Samaj? A:-Atmaram Pandurang B:-Gopal Hari Deshmuk

A:-C.R. Das

A:-Indus B:-Hughly C:-Brahmaputra

D:-Tapti

A:-Rajastan B:-Punjab C:-Gujarat D:-Haryana

A:-3 B:-5 C:-7 D:-9

A:-Chelmsford B:-Dalhousie C:-Dufferin D:-Ripon

A:-Allahabad B:-Guwahati C:-Belgaum D:-Kakinada

B:-V.D. Savarkar C:-Romila Taper D:-Tharachand

C:-M.G. Ranade D:-Jyotiba Phule

Correct Answer:- Option-D

Question9:-Who was the president of the Indian National Congress in the Gaya Session of 1922?

A:-Vindhya-Satpura B:-Himalayas C:-Anamudi D:-Siwalik

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B:-Motilal Nehru
    C:-Gokhale
    D:-Tilak
    Correct Answer:- Option-A
Question10:-When was the historic temple entry proclamation made?
    A:-April 12, 1936
    B:-November 12, 1936
    C:-March 12, 1936
    D:-June 12, 1936
    Correct Answer:- Option-B
Question11:-Who took initiative to form Anthar Jana Samajam at Chettupuzha?
    A:-Sreedevi Kannampalli
    B:-Uma Alampalli
    C:-Kavumkkara Bhargavi
    D:-Parvathy Nenminimangalam
    Correct Answer:- Option-D
Ouestion12:-Who is known as the father of Kerala Renaissance?
    A:-Kumaran Asan
    B:-Sree Narayana Guru
    C:-Chattampi Swamikal
    D:-V.T. Bhattathiripad
    Correct Answer:- Option-B
Question13:-Owner of Swadeshabhimani edited by K. Ramakrishna Pillai?
    A:-C.V. Kunjiraman
    B:-K. Kelappan
    C:-Dr. Palpu
    D:-Vakkom Abdul Khadir Maulavi
    Correct Answer:- Option-D
Question14:-The Savarna Jatha to support the Vaikkom Satyagraha was organised by
    A:-Mannath Padmanabhan
    B:-T.K. Madhavan
    C:-K. Kelappan
    D:-Sahodaran Ayyappan
    Correct Answer: - Option-A
Question15:-The Malayalee women who attended the International Womens' Conference held at Copenhagen in 1949?
    A:-Kamala Nambeesan
    B:-Ammu Swaminathan
    C:-Arya Pallam
    D:-Priyadutta Mullamangalath
    Correct Answer:- Option-B
Question16:-Which day is observed as Human Rights Day?
    A:-December 10
    B:-January 10
    C:-March 10
    D:-May 10
    Correct Answer:- Option-A
Question17:-Operation Protective Edge is the name of which country's controversial military action launched on its
neighbourhood?
    A:-Syria
    B:-Jordan
    C:-Iran
    D:-Israel
    Correct Answer:- Option-D
Question18:-Mutual Funds are regulated in India by which among the following?
    A:-RBI
    B:-SEBI
    C:-Stock Exchanges
    D:-UTI
    Correct Answer:- Option-B
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Question19:-Who received the Golden Ball award for the best player of the FIFA World Cup 2014? A:-Miroslav Klose B:-Karim Bensema C:-Angel D'Maria D:-Lionel Messy Correct Answer:- Option-D Question20:-With which game is Davis Cup associated? A:-Football B:-Cricket C:-Tennis D:-Hockey Correct Answer:- Option-C Question21:-Which of the following is not an x-ray interaction with the atoms of absorbing medium? A:-Photo Electric Effect B:-Bremsstrahlung C:-Pair Production D:-Compton Effect Correct Answer:- Option-B Question22:-The target material used in General purpose Radiography x-ray machine is A:-Tungsten B:-Copper C:-Stainless Steel D:-Aluminum Correct Answer:- Option-A Question23:-The tilting of anode of a x-ray tube with respect to incident electron axis is A:-Line Focus Principle B:-Anode hell effect C:-Duane Hunt Principle D:-None of the above Correct Answer: - Option-A Question24:-The vertical plane passing longitudinally through the human body, divides the body into right and left halves is A:-Transverse plane B:-Coronal plane C:-Medial plane D:-None of the above Correct Answer:- Option-C Question25:-The SI unit of electric current is A:-Ampere B:-Coulomb C:-Farad D:-Ohm Correct Answer: - Option-A Question26:-The power loss in a transformer can occur due to A:-Eddy current B:-Core loss C:-Leakage of flux D:-All of the above Correct Answer:- Option-D Question27:-Anode of a rotating anode x-ray tube is rotating with the help of A:-Induction motor B:-DC motor C:-Battery D:-None of the above Correct Answer: - Option-A Question28:-The base of an x-ray film is made of A:-Gadolinium B:-Gelatin C:-Silver

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D:-Polyester
     Correct Answer:- Option-D
Question29:-The active ingredient in emulsion of a Radiographic film is
     A:-Silver halide
     B:-Cellulose triacetate
     C:-Rare earth materials
     D:-Sodium Sulphite
     Correct Answer: - Option-A
Question30:-X-ray tube rating charts includes
     A:-Radiographic rating chart
     B:-Anode cooling chart
     C:-Housing cooling chart
     D:-All of the above
     Correct Answer:- Option-D
Question31:-The Radiographic grid was first designed by
     A:-Bucky
     B:-Roentgen
     C:-Coolidge
     D:-Faraday
     Correct Answer: - Option-A
Question32:-Waters view is used for the examination of
    A:-Ankle
     B:-Skull
     C:-Maxillary sinuses
     D:-Foot
     Correct Answer:- Option-C
Question33:-The annual equivalent radiation dose limit for radiation workers in India is
    A:-1 mSv
     B:-20 mSv
     C:-100 mSv
     D:-0.1 mSv
     Correct Answer:- Option-B
Question34:-The deposition of metallic silver in a radiographic film without exposure to radiation results
    A:-Artifacts
    B:-Fog
     C:-Latitude
     D:-Gamma
     Correct Answer:- Option-B
Question35:-Which of the following component is not connected with the secondary coil of high tension transformer of x-ray
generator circuits?
     A:-X-ray tube
     B:-Rectifier
     C:-mA meter
     D:-KVp meter
     Correct Answer:- Option-D
Question36:-The relative ability of radiographic emulsion to respond to x-ray or light is
    A:-Speed
     B:-Latitude
     C:-Optical density
     D:-Contrast
     Correct Answer:- Option-A
Question37:-Myelogram was the gold standard for the diagnosis of disease of
     A:-Neural canal
     B:-Kidney
     C:-Heart
     D:-Orbit
     Correct Answer: - Option-A
Question38:-Which of the following is a common cause of x-ray tube failure?
     A:-Extremely high voltage
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C:-Anode Melting	
D:-All of the above	
Correct Answer:- Option-D	
Question39:-The advantage of CT over MRI is	
A:-Lack of artifacts from adjacent bones	
B:-Multiplane capabilities	
C:-Fine bone details	
D:-Soft tissue contrast	
Correct Answer:- Option-C	
Question40:-Molybdenum and rhodium targets are used in x-ray tubes.	
A:-CT machines	
B:-Angiography machines	
C:-Mammography	
D:-Dental x-rays	
Correct Answer:- Option-C	
Question41:-Movement unsharpness in radiographs are due to	
A:-Heart beat	
B:-The pulse	
C:-Peristalsis	
D:-All of the above	
Correct Answer:- Option-D	
Question42:-Empty urinary Bladder require before	
A:-Pelvic Ultrasound	
B:-CT of Pelvis	
C:-Hysterosalpingography	
D:-All of the above	
Correct Answer:- Option-C	- n+
Question43:-Computed Tomography (CT) machines with two x-ray tubes, two rows of detector, one gantry and one patientable is	ent
A:-Multislice CT machines	
B:-Electron Beam CT	
C:-Spiral CT	
D:-Dual Source CT	
Correct Answer:- Option-D	
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Question44:-The upper border of Sternum is	
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A:-Supra sternal notch B:-Acromion	
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A:-Supra sternal notch B:-Acromion C:-Xiphi sternum	
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Question48:-The lordotic AP projection of chest is use full for evaluating
    A:-The carina
     B:-Pleural effusion
     C:-An apical lesion
     D:-All of the above
     Correct Answer:- Option-C
Question49:-The metacarpal bones are
     A:-Four in numbers
     B:-Five in numbers
     C:-Fourteen in numbers
     D:-Two in numbers
     Correct Answer:- Option-B
Question50:-A normal red blood cell has a life span of
    A:-365 days
     B:-1 day
    C:-24 days
     D:-120 days
     Correct Answer:- Option-D
Question51:-Which of the following is not an endocrine gland?
    A:-Pituitary
     B:-Adrenalls
     C:-Pancreas
     D:-Spleen
     Correct Answer:- Option-D
Question52:-Bending of knee joint is
    A:-Flexion
     B:-Extension
     C:-Abduction
     D:-Pronation
     Correct Answer: - Option-A
Question53:-The patella or knee cap is a
    A:-Long bones
     B:-Flat bones
    C:-Sesamoid bone
     D:-Irregular bones
     Correct Answer:- Option-C
Question54:-Length of adult human spinal cord is around
    A:-10 cm
    B:-15 cm
     C:-45 cm
     D:-75 cm
     Correct Answer:- Option-C
Question55:-Blood volume of average adult human being is
    A:-5 Liters
     B:-1 Liter
     C:-10 Liters
     D:-20 Liters
     Correct Answer: - Option-A
Question56:-Pleura is the membrane covering
    A:-Lung
    B:-Heart
     C:-Brain
     D:-None of the above
     Correct Answer: - Option-A
Question57:-True statement regarding the radiography of cervical spine is
     A:-No tube angulations required in the AP view
     B:-The tube is angled 5 to 10 degree cephaled
     C:-A short focus to film distance required for lateral projection
     D:-None of the above
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Correct Answer:- Option-B
Question 58:- Which of the following isotope is not used for permanent implant in brachytherapy?
     A:-Gold 198
     B:-lodine 125
     C:-Palladium 103
     D:-Cesium 137
     Correct Answer:- Option-D
Question59:-Cobalt 60 radioactive isotope has a half life of
     A:-74 days
     B:-1620 years
     C:-30 years
     D:-5.6 years
     Correct Answer:- Option-D
Question60:-Which of the following is a beam modifying device used in Radiotherapy?
     A:-Phantom
     B:-Wedges
     C:-Breast Board
     D:-Thermoplastic masks
     Correct Answer:- Option-B
Question61:-Which of the following radiation detectors cannot be used in automatic exposure control (Photo timers) in an
x-ray generator system?
     A:-Thermoluminesent detector
     B:-Photo multiplier detector
     C:-Ionization detector
     D:-Solid state detector
     Correct Answer: - Option-A
Question62:-CT number for air is
    A:-0
     B:--1000
     C:-1000
     D--1
     Correct Answer:- Option-B
Question63:-The degree of blackening of Radiographic of film is described by
     A:-Optical density
     B:-Film sensitivity
     C:-Film speed
     D:-Gamma
     Correct Answer:- Option-A
Question64:-True statement regarding plain abdominal radiography is
     A:-A short exposure time is unnecessary
     B:-The lower border of cassette should be positioned at the level of pubis symphysis
     C:-Injection of air via nasogastric tube helps in diagnosis of perforation
     D:-All of the above
     Correct Answer:- Option-C
Question65:-The Gadolinium-diethyltriamine penta acetic acid (Gd-DTPA) is a
     A:-Contrast medium used in Magnetic Resonance Imaging
     B:-Contrast media used for CT imaging
     C:-Contrast media used in Fluoroscopy
     D:-Emulsion used in x-ray films
     Correct Answer: - Option-A
Question66:-Which of the following is not a Magnetic Resonance Imaging Parameter?
     A:-Spin Density
     B:-Electron Density
    C:-T2 Relaxation Time
     D:-T1 Relaxation Time
     Correct Answer:- Option-B
Question67:-The inherent filtration in an x-ray tube ranges from
     A:-0.5 to 1 mm Al.
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B:-.001 to .01 mm lead

C:-.05 to 1 m lead D:-2 to 4 mm Al Correct Answer: - Option-A Question68:-The added filter used for the radiography of body part of uneven thickness is A:-Heavy metal filters B:-Inherent filtration C:-Wedge filter D:-None of the above Correct Answer:- Option-C Question69:-The magnitude of scattered radiation during radiography depends on A:-Energy of x-ray B:-Field size C:-Thickness of patient D:-All of the above Correct Answer:- Option-D Question70:-Grid ratio is the A:-Ratio of the height of the lead strips to the width of the inter space material B:-Number of lead strip lines per centimeter C:-Ratio exposure with grid and without grid D:-Ratio of contrast with and without grid Correct Answer: - Option-A Question71:-Which of the following is a method of scatter reduction in radiography other than using grid? A:-Use of collimator B:-Scanning slit C:-Air gap method D:-All of the above Correct Answer:- Option-D Question72:-In spiral CT scanners A:-No ring detectors B:-Stationary x-ray tube C:-Patient table stationary D:-Patient table moving during scanning process Correct Answer:- Option-D Question73:-A radiation detector not suitable for the use in CT scanner is A:-Sodium Iodine Detector B:-Bismuth Germanate Detector C:-Fricke Detector D:-Cadmium Tungstate Correct Answer:- Option-C Question74:-Main advantage of fourth generation CT scanner is A:-Less patient dose B:-Elimination of ring artifact C:-Less scattered radiation D:-All of the above Correct Answer:- Option-B Question75:-Qunatum mottle is due to A:-Statistical fluctuation in the number of x-rays emitted from x-ray tube **B:-Patient motion** C:-Absorption of radiation by high density material D:-Heterogeneous x-ray spectrum Correct Answer:- Option-A Question76:-CT number of dense bone is A:-+100B:-+1000 C:-+55 D:-+35 Correct Answer:- Option-B Question77:-Ring of stationary detectors were introduced in

A:-First generation CT scanners

C:-Third generation CT scanners
D:-Fourth generation CT scanners
Correct Answer:- Option-D
Question78:-Auto transformer works on the principle of
A:-Self induction
B:-Mutual induction
C:-Ohms law
D:-Joules law
Correct Answer:- Option-A
Question79:-Radioactivity first discovered by
A:-William Conrad Roentgen
B:-Madam Curie
C:-Henry Becquerel
D:-Charles Rutherford
Correct Answer:- Option-C
Question80:-X-rays were discovered in the year
A:-1985
B:-1895
C:-1589
D:-1986
Correct Answer:- Option-B
Question81:-Use of intensifying screen results
A:-Lower patient dose
B:-Increase radiographic contrast
C:-All of the above
D:-None of the above
Correct Answer:- Option-C
Question82:-In a rotating anode x-ray tube the anode having an Area "A" is tilted to an angle of 10 degree. Then the
effective focal area will be
A:-A sin10
B:-A × 20
C:-A - 20
D:-A cos20
Correct Answer:- Option-A
Question83:- is a double emulsion film ?
A:-Mammographic film
B:-Duplicating film
C:-Subtraction film
D:-Dental film
Correct Answer:- Option-D
Question84:-Which of the following is not used as a phosphor in the intensifying screens used for radiography?
A:-Calcium tungstate
B:-Zinc sulphide
C:-Gadolinium
D:-Aluminum
Correct Answer:- Option-D
Question85:-The speed of intensifying screen is affected by
A:-Phosphor composition
B:-Crystal size
C:-Presence of reflective layer
D:-All of the above
Correct Answer:- Option-D
Question86:- is not an ingredient of developing solution.
A:-Hydroquinone
B:-Sodium Carbonate
C:-Potassium bromide
D:-Hypo
Correct Answer:- Option-D

B:-Second generation CT scanners

Question87:-Chrome alum is used as a in fixer solution.
A:-Fixing agent
B:-Preservative
C:-Hardener
D:-Acid medium
Correct Answer:- Option-C
Question88:-Which of the following is not a reason for the fog formation in x-ray films?
A:-Exposure to light
B:-Exposure to x-rays or radionuclide
C:-Outdated film
D:-Static electricity due to friction between film and other objects
Correct Answer:- Option-D
Question89:-Streaking in x-ray film caused by the following
A:-Bending of film
B:-Failure to agitate the film in developer
C:-Water droplets on the surface of film
D:-Formation of air bubbles in the developer
Correct Answer:- Option-B
Question 90:- For female patients of reproductive age non urgent abdomen and pelvic radiographs should be taken
A:-Within 10 days following menstrual period
B:-10 to 20 days interval following menstrual period
C:-20 to 30 days interval following menstrual period
D:-There is no such restriction
Correct Answer:- Option-A
Question91:-Reason for unsharpness in a radiographic image is
A:-Movement
B:-Focal spot size
C:-Use of screen
D:-All of the above
Correct Answer:- Option-D
Question92:-Unequal magnification of different portions of same object in a radiograph is called
A:-Crossover
B:-Distortion
C:-Unsharpness
D:-Fog
Correct Answer:- Option-B
Question93:-Most important factor for radiographic contrast is
A:-KVp
B:-mA
C:-mAs
D:-Focus to film distance
Correct Answer:- Option-A
Question94:-Anal atresia in Neonates can be diagnosed by
A:-Lateral decubitus view
B:-AP supine
C:-Invertogram
D:-Abdomen AP erect
Correct Answer:- Option-C
Question95:-Delineation of contour and cavity of uterus and tubal potency and can be established by
A:-Nephrotomography
B:-Hysteriosalpingography (HSG)
C:-KUB examination
D:-None of the above
Correct Answer:- Option-B
Question96:-Small lesions and mucosal lining are more clearly visible in radiography.
A:-Single contrast method
B:-Double contrast method
C:-No contrast
D:-None of the above

Correct Answer:- Option-B

Question 97:- The radiographic examination of choice to demonstrate the whole of the small bowel from duodenal flexture to ileocaceal valve is

A:-Barium Meal Follow through

B:-Hyptonic Dudenography

C:-Conventional barium meal

D:-None of the above

Correct Answer:- Option-A

Question 98:-The radiographic investigation of lacrimal system is

A:-Arthography

B:-Cholangiography

C:-Sialography

D:-Dacryocystography

Correct Answer:- Option-D

Question99:-The photo conductor used in Xeroradiography is

A:-Amorphous Selenium

B:-Sodium Iodine

C:-Calcium Tungstate

D:-Molybdenum

Correct Answer:- Option-A

Question100:-Which of the following substance produces Piezo Electric Effect?

A:-Quartz

B:-Gadolium Oxy Sulphide

C:-Sodium Iodide (Thalium Activated Crystals)

D:-Sodium Chloride

Correct Answer:- Option-A