## PROVISIONAL ANSWER KEY

	Question Paper Code:	82/2022/OL
	Category Code:	347/2021
	Exam:	Radiographer Grade II
	Date of Test	01-10-2022
	Department	Medical Education
	Alphacode	A
Ouestion1:-Number of e		from filament to target in an x-ray tube refers to
A:-Tube voltage	, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·
B:-Tube current		
C:-Tube emission		
D:-Tue capacitance		
	aki an D	
Correct Answer:- O		
Question2:-Melting point	or tungsten is	
A:-3370 degrees C		
B:-9371 degrees C		
C:-1000 degrees C		
D:-500 degrees C		
Correct Answer:- O		
Question3:-Range of and	de angle in x-ray tubes	
A:-1 to 2 degree		
B:-30 to 40 degree		
C:-6 to 20 degree		
D:-90 to 100 degree	e	
Correct Answer:- O	otion-C	
Question4:-Bucky factor	indicates the absorption of	
A:-only primary rad	iation	
B:-only secondary r	adiation	
C:-scattered radiati	on	
D:-both primary an	d secondary radiation	
Correct Answer:- O	otion-D	
Question5:-Noise which	arises which from the statist	tical fluctuations in the number of x-ray photons absorbed by the intensifying screen to form an image in a film is also called
A:-Luminescence		
B:-Dynamic Range		
C:-Quantum Mottle		
D:-Speed		
Correct Answer:- O	otion-C	
Question6:-Q-factor of a		
A:-purity of the sou		
B:-length of the tim		
C:-acoustic impeda		
	n of time of sound wave	
Correct Answer:- O		
Question7:-SI unit for ab		
	sorbed dose	
A:-gray		
B:-rem		
C:-sievert		
D:-roentgen		
Correct Answer:- O	otion-A	

Question8:-The time interval between 2 90 degree pulses in MR image acquisition is
A:-PD
B:-TE
C:-TR
D:-GRE
Correct Answer:- Option-C
Question9:-In a CT image, each square in the image matrix is called
A:-voxel
B:-data
C:-element
D:-pixel
Correct Answer:- Option-D
Question10:-'Characteristics curve' depicts relationship between
A:-power and amplitude
B:-frequency and wavelength
C:-pitch and distance
D:-exposure and density
Correct Answer:- Option-D
Question11:-The structure known as the 'pacemaker of the heart' is
A:-AV node
B:-Bundle of His
C:-Purkinje fibres
D:-SA node
Correct Answer:- Option-D
Question12:-Diabetes incipidus is a medical condition due to deficiency of
A:-Growth hormone
B:-ACTH
C:-ADH
D:-LH
Correct Answer:- Option-C
Question13:-Elevation of medially-rotated eye, abduction and lateral rotation is the action of which extra-ocular muscle
A:-superior oblique
B:-inferior oblique
C:-superior rectus
D:-inferior rectus
Correct Answer:- Option-B
Question14:-Mental foramen is located in which bone ?
A:-scapula
B:-clavicle
C:-mandible
D:-femur
Correct Answer:- Option-C
Question15:-A hollow cavity inside a bone is called
A:-fossa
B:-sinus
B:-sinus C:-sulcus
D:-trochlea
Correct Answer:- Option-B
Question16:-Breast is a gland.
A:-salivary

	B:-sweat
	C:-sebaceous
	D:-lacrimal
	Correct Answer:- Option-B
Ques	stion17:-Innermost layer of the meninges - the membranous covering surrounding the brain is
	A:-dura mater
	B:-pia mater
	C:-arachnoid mater
	D:-grey matter
	Correct Answer:- Option-B
Oue	stion18:-Forceps major is an anatomical structure in
	A:-kidney
	B:-brain
	C:-liver
	D:-lung
0	Correct Answer:- Option-B
Ques	stion19:-The terminal branches of external carotid artery are
	A:-lingual A and facial A
	B:-superior thyroid A and inferior thyroid A
	C:-superficial temporal A and maxillary A
	D:-ascending pharyngeal A and lingual A
	Correct Answer:- Option-C
Ques	stion20:-Nerve within the carpal tunnel is
	A:-radial nerve
	B:-ulnar nerve
	C:-median nerve
	D:-sciatic nerve
	Correct Answer:- Option-C
Ques	stion21:-In a conventional photographic film, gelatin and silver halide are components of
	A:-adhesive layer
	B:-super-coating
	C:-base
	D:-emulsion
	Correct Answer:- Option-D
Ques	stion 22: In film processing, the chemical process that amplifies the latent image - by a factor of millions - to form a visible silver pattern is call
	A:-sensitisation
	B:-development
	C:-fixing
	D:-attenuation
	Correct Answer:- Option-B
Ques	stion23:-Measurement of film blackness is called
	A:-linear attenuation
	B:-photographic density
	C:-transmission
	D:-exposure gradient
	Correct Answer:- Option-B
Ques	stion24:-Film contrast depends on all the following except
	A:-characteristic curve of a film
	B:-film processing
	C:-film density
	·······,

Correct Answer:- Option-D
Question25:-Maximum slope of a characteristic curve is
A:-film gamma
B:-film alpha
C:-film theta
D:-film delta
Correct Answer:- Option-A
Question26:-Development of unexposed silver halide grains that do not contain the latent image is called
A:-oxidation
B:-photoelectric effect
C:-fog
D:-automatic exposure
Correct Answer:- Option-C
Question27:-Fixation removes unexposed
A:-gelatin
B:-silver halide
C:-ammonium thiosulphate
D:-polyester base
Correct Answer:- Option-B
Question28:-Increasing the time or temperature of film development will cause
A:-decreased film speed
B:-increased radiation exposure
C:-increased fog
D:-decreased average gradient
Correct Answer:- Option-C
Question29:-Range of log-relative exposure, that will produce a density within the accepted range for diagnostic radiology, is called
A:-speed
B:-latitude
B:-latitude C:-contrast
C:-contrast
C:-contrast D:-spectrum
C:-contrast D:-spectrum Correct Answer:- Option-B
C:-contrast  D:-spectrum  Correct Answer:- Option-B  Question30: reaction occurs when the photon energy and the electron binding energy are nearly the same.
C:-contrast  D:-spectrum  Correct Answer:- Option-B  Question30: reaction occurs when the photon energy and the electron binding energy are nearly the same.  A:-Pair production
C:-contrast  D:-spectrum  Correct Answer:- Option-B  Question30: reaction occurs when the photon energy and the electron binding energy are nearly the same.  A:-Pair production  B:-Coherent scattering
C:-contrast  D:-spectrum  Correct Answer:- Option-B  Question30: reaction occurs when the photon energy and the electron binding energy are nearly the same.  A:-Pair production  B:-Coherent scattering  C:-Photo-electric reaction
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C:-contrast D:-spectrum Correct Answer:- Option-B  Question30: reaction occurs when the photon energy and the electron binding energy are nearly the same.  A:-Pair production B:-Coherent scattering C:-Photo-electric reaction D:-Compton scattering Correct Answer:- Option-C  Question31:-Nuclides with the same number of protons but different neutrons are A:-isomer
C:-contrast D:-spectrum Correct Answer:- Option-B Question30: reaction occurs when the photon energy and the electron binding energy are nearly the same.  A:-Pair production B:-Coherent scattering C:-Photo-electric reaction D:-Compton scattering Correct Answer:- Option-C Question31:-Nuclides with the same number of protons but different neutrons are A:-isomer B:-isotone
C:-contrast  D:-spectrum  Correct Answer:- Option-B  Question30: reaction occurs when the photon energy and the electron binding energy are nearly the same.  A:-Pair production  B:-Coherent scattering  C:-Photo-electric reaction  D:-Compton scattering  Correct Answer:- Option-C  Question31:-Nuclides with the same number of protons but different neutrons are  A:-isomer  B:-isotone  C:-isotope
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C:-contrast D:-spectrum Correct Answer:- Option-B  Question30: reaction occurs when the photon energy and the electron binding energy are nearly the same.  A:-Pair production B:-Coherent scattering C:-Photo-electric reaction D:-Compton scattering Correct Answer:- Option-C  Question31:-Nuclides with the same number of protons but different neutrons are  A:-isomer B:-isotone C:-isotope D:-isobar Correct Answer:- Option-C
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C:-contrast D:-spectrum Correct Answer:- Option-B  Question30:
C:-contrast D:-spectrum Correct Answer:- Option-B  Question30:

A:-balanced and unbalanced	
B:-reversible and irreversible	
C:-stochastic and deterministic	
D:-linear and non-linear	
Correct Answer:- Option-C	
Question34:-In PC-PNDT Act, 1994, which is the form for informed consent for invasive procedures	
A:-Form A	
B:-Form B	
C:-Form F	
D:-Form G	
Correct Answer:- Option-D	
Question35:-The MR equivalent of 'power absorbed per unit mass', just like we measure Gy in ionizing radiation, is	
A:-Tesla (T)	
B:-Thermal Index (TI)	
C:-Specific Absorption Rate (SAR)	
D:-Mechanical Index (MI)	
Correct Answer:- Option-C	
Question36:-In MRI, the abbreviation TE in a pulse-echo sequence, stands for	
A:-tesla echo	
B:-thermal efficiency	
C:-time to exit	
D:-time to echo	
Correct Answer:- Option-D	
Question37:-The is the thickness of a specific substance that, when introduced in the path of a beam of radiation, reduces ex	xposure rate by half.
A:-Attenuation Difference (AD)	
B:-Half-Life Thickness (HLT)	
C:-Half-Value Layer (HVL)	
D:-None of these	
Correct Answer:- Option-C	
Question38:-To differentiate between calcification and haemorrhage, the sequence used in MRI is	
A:-Diffusion-weighted image	
B:-MR spectroscopy	
C:-Susceptibility-weighted imaging	
D:-MR perfusion	
Correct Answer:- Option-C	
Question39:-Active CSF leak is confirmed with investigation.	
A:-CT fistulogram	
B:-CT enterography	
C:-CT cisternogram	
D:-CT angiogram	
Correct Answer:- Option-C	
Question40:-Transducer crystals in the USG probe are made up of	
A:-Piezoelectric crystals	
B:-LCD crystals	
C:-Thermocouple crystals	
D:-Strain guage	
Correct Answer:- Option-A	
Question41:-MRI sequence for detecting microscopic fat content in the tissue is	
A:-Diffusion-weighted imaging	

Question33:-Types of biological effects of radiation are

B:-functional MRI	
C:-in-phase and out-of-phase sequence	
D:-MR contrast	
Correct Answer:- Option-C	
Question42:-The appropriate attitude towards a patient seeking assistance in a hospital setting would be	
A:-sympathy	
B:-empathy	
C:-antipathy	
D:-apathy	
Correct Answer:- Option-B	
Question43:-In female patients presenting for ionizing radiation-based investigations, the most important clinical history to be elicited is	
A:-financial history	
B:-surgical history	
C:-menstrual history	
D:-medical history	
Correct Answer:- Option-C	
Question44:-All these are ionizing radiation except	
A:-x-ray	
B:-gamma ray	
C:-beta ray	
D:-ultra-violet radiation	
Correct Answer:- Option-D	
Question45:-The 3 basic principles of radiation protection	
A:-sensitisation, standardisation, subsidisation	
B:-jurisdiction, optimization, legalisation	
C:-justification, optimization, dose-limitation	
D:-sustainability, compatibility, longevity	
Correct Answer:- Option-C	
Question46:-What is the relationship between the radiation dose and distance ? Doubling distance will decrease dose by	
A:-one-half	
B:-one-third	
C:-one-fourth	
D:-one-fifth	
Correct Answer:- Option-C	
Question47:-AERB stands for	
A:-Applied and Essential Radiology Background	
B:-Assisted and Enhanced Radiation Barrier	
C:-Applied Exposure Regulatory Board	
D:-Atomic Energy Regulatory Board	
Correct Answer:- Option-D	
Question48:-The absolute density in CT is measured in units.	
A:-tesla	
B:-voxel	
C:-hounsfield	
D:-roentgen	
Correct Answer:- Option-C	
Question49:-Radiation -induced cancer and genetic effects are considered biological effects of radiation.	
A:-deterministic	
B:-stochastic	
C:-characteristic	

D:-catastrophic	
Correct Answer:- Option-B	
Question50:-In ante-natal pregnancy scanning, a dedicated fetal anomaly scan is done at gestational a	ge.
A:-5-6 weeks	
B:-18-20 weeks	
C:-28-32 weeks	
D:-38-40 weeks	
Correct Answer:- Option-B	
Question51:-Half-life ( $T_{1/2}$ ) of a radioactive substance is related to the average life ( $T_a$ ) by which equation?	
A:- $T_{1/2} = 1.44T_a$	
B:- $T_{1/2} = 1.44 + T_a$	
$C:-T_{1/2} = T_a/1.44$	
D:- $T_{1/2} = T_a - 1.44$	
Correct Answer:- Option-C	
Question52:-X-ray quantity is the	
A:-Energy of the X-ray beam	
B:-Number of X-ray photons in the X-ray beam	
C:-Energy of electrons hitting the target	
D:-All of the above	
Correct Answer:- Option-B	
. Question53:-Which of the following is not a gas filled detector ?	
A:-Scintillation detector	
B:-Proportional counter	
C:-GM detector	
D:-lonization chamber	
Correct Answer:- Option-A	
Question54:-Track of ionization produced by secondary electrons are known as	
A:-Bragg peak	
B:-Delta rays	
C:-Alpha rays	
D:-Stopping power	
Correct Answer:- Option-B	
Question55:-Tissue Air Ratio (TAR) is independent of	
A:-Depth	
B:-Field size	
C:-Beam energy	
D:-SSD	
Correct Answer:- Option-D	
Question56:-Fluoroscopy images can be recorded by means of	
A:-Spot film cassette	
B:-Photo spot films	
C:-Digital recording	
D:-All of the above	
Correct Answer:- Option-D	
Question57:-The line passing through points of equal dose is known as	
A:-Isocentre	
B:-Penumbra	
C:-Isodose curve	
D:-Build up depth	
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Correct Answe	r:- Option-C
Question58:-The mo	easure of total energy absorbed in treated volume is
A:-Effective do	ose
B:-Equivalent	dose
C:-Integral dos	se e
D:-None of the	e above
Correct Answe	er:- Option-C
Question59:-The un	nit of absorbed dose is
A:-rem	
B:-rad	
C:-curie	
D:-sievert	
Correct Answe	er:- Option-B
Question60:-In the	Build Up region, KERMA is absorbed dose.
A:-Greater tha	n e e e e e e e e e e e e e e e e e e e
B:-Equal to	
C:-Smaller tha	n en
D:-Twice the	
Correct Answe	er:- Option-A
Question61:-The ha	lf-life of Gold 198 (Au-198) is
A:-6.02 hrs	
B:-73.8 days	
C:-17 days	
D:-2.7 days	
Correct Answe	er:- Option-D
Question62:-The tot	tal activity of all radioisotopes discharged into the sewage in one year by any institution shall not exceed
A:-1 Ci	
B:-2 Ci	
C:-5 Ci	
D:-10 Ci	
Correct Answe	
	n emits gamma energy of
A:-159 keV	
B:-80 keV	
C:-364 keV	
D:-140 keV	
Correct Answe	
	of the following is the AERB safety directive describes the dose limits for exposures from ionizing radiations for workers and the members of the public
	tive No. 01/2011
	tive No. 02/2011
	tive No. 01/2021
	tive No. 02/2021
Correct Answe	
	s the minimum primary wall thickness of a typical Telecobalt bunker ?
A:-190 cm	
B:-220 cm	
C:-130 cm	
D:-45 cm	Option C
Correct Answe	
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A:-33
     B:-0.33
     C:-33.33
     Correct Answer:- Option-D
Question67:-Lateral wall of Nasopharynx contain all except
     A:-Torus tubarius
     B:-Fossa of Rosemuller
     C:-Basilar portion of sphenoid
     D:-Pharyngo tympanic tube
     Correct Answer:- Option-C
Question68:-Bimodal age distribution is found in which Carcinoma of head and neck?
     A:-Cancer oropharynx
     B:-Cancer nasopharynx
     C:-Cancer larynx
     D:-Cancer oral cavity
     Correct Answer:- Option-B
Question69:-Acinic cell carcinoma salivary gland arises from
     A:-Mucus producing cells and cells of intermediate type
     B:-Myoepithelial cells
     C:-Excretory duct cells
     D:-Terminal ducts & Intercalated ducts
     Correct Answer:- Option-D
Question70:-In AJCC staging of head and neck tumors, which carcinoma staging takes into consideration the human papilloma virus status
     A:-Cancer oropharynx
     B:-Cancer nasopharynx
     C:-Cancer larynx
     D:-None of the above
     Correct Answer:- Option-A
Question71:-In cervical carcinoma, presence of hydronephrosis is staged as
     A:-Stage II A
     B:-Stage II B
     C:-Stage III A
     D:-Stage III B
     Correct Answer:- Option-D
Question72:-First site of distant metastasis in cervical cancer is
     A:-Lung
     B:-Abdominal cavity
     C:-Spine
     D:-Liver
     Correct Answer:- Option-A
Question73:-Breast anatomically extends cranio-caudally from
     A:-First rib to sixth rib anteriorly
     B:-First rib to fifth rib anteriorly
     C:-Second rib to sixth rib anteriorly
     D:-Second rib to fifth rib anteriorly
     Correct Answer:- Option-C
Question74:-Well established risk factors in development of cancer breast includes all except
     A:-Early menarche
     B:-Germ line mutation
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D:-Early menopause
Correct Answer:- Option-D
Question75:-R-S cells are signature neoplastic cells of
A:-Classic non-Hodgkin's lymphoma
B:-Classic Hodgkin's lymphoma
C:-Chronic myeloid leukemia
D:-Acute myeloblastic leukemia
Correct Answer:- Option-B
Question76:-Rectum is approximately in length.
A:-8 to 11 cm
B:-10 to 13 cm
C:-12 to 15 cm
D:-15 to 18 cm
Correct Answer:- Option-C
Question77:-Cancer registry in India under ICMR include
A:-Population based and community based registry
B:-Population based and hospital based registry
C:-Community based and clinic based registry
D:-Population based registries only
Correct Answer:- Option-B
Question78:-Common ethical issues directly affecting Oncology patients are all except
A:-Electronic record keeping
B:-Financial relationship into industry sponsors
C:-Genetic counseling
D:-Plagiarism and fabrication
Correct Answer:- Option-D
Question79:-Patient counseling before radiation planning and start of treatment should include all except
A:-Informed consent duly signed
B:-Giving educational brochure on instructions, common side effects and their initial management
C:-Both of the above
D:-None of the above
Correct Answer:- Option-D
Question80:-Radiation induced salivary dysfunction can be prevented by
A:-Limiting mean dose to parotid glands to 45 Gy
B:-Amifostine therapy
C:-Both of the above
D:-None of the above
Correct Answer:- Option-B
Question81:-Intensity modulated radiotherapy includesbefore plan acceptance.
A:-Inverse planning and defining constraints
B:-Forward planning and selecting beam parameters  C:-Optimization of treatment design
D:-Both 1 and 3
Correct Answer:- Option-D
Question82:-Which volume takes into consideration the organ motion and setup variations in IMRT planning?
A:-Gross tumor volume
B:-Clinical target volume
C:-Planning target volume
D:-Planning risk volume
· Julian talanta

C:-Obesity after menopause

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Correct Answer:- Option-C
Question83:-The rationale for
                                     \_ fractionation is that reduction of overall treatment time decreases the opportunity for tumor cell regeneration.
    A:-Accelerated fractionation radiotherapy
     B:-Hyper fractionation radiotherapy
    C:-Conventional fractionation radiotherapy
     D:-Both 1 and 2
    Correct Answer:- Option-A
Question84:-Biological effect of concurrent chemo radiation include all except
    A:-Shift of cell survival curves towards higher cell killing levels
     B:-A decrease in tumor mass and re-oxygenation
     C:-Increased apoptosis
    D:-Favorer DNA repair
    Correct Answer:- Option-D
Question85:-Spinal cord tolerance in radiotherapy
    A:-35 Gy
    B:-45 Gy
    C:-55 Gy
    D:-65 Gy
    Correct Answer:- Option-B
Question86:-SBRT is
    A:-Systemic Based Radiotherapy
    B:-Stereotactic Based Radiotherapy
    C:-Stereotactic Body Radiotherapy
    D:-Systemic Body Radiotherapy
    Correct Answer:- Option-C
Question87:-All can be used in cancer treatment except
    A:-Proton therapy
    B:-Neutron therapy
     C:-Carbon ions
    D:-Nitrogen ions
     Correct Answer:- Option-D
Question88:-HDR (High Dose Rate) brachytherapy is
    A:->12 Gy/hour
    B:->10 Gy/hour
    C:->20 Gy/hour
    D:->22 Gy/hour
    Correct Answer:- Option-A
Question89:-Brachytherapy technique is commonly used in all except
    A:-Cancer Cervix
    B:-Cancer Prostate
    C:-Cancer Buccal Mucosa
    D:-Cancer Brain
    Correct Answer:- Option-D
Question90:-ICRU (International Commission on Radiation Units and Measurements) 38 defines
    A:-IMRT
     B:-3DCRT
    C:-Brachytherapy
    D:-IGRT
    Correct Answer:- Option-C
Question91:-Radiopharmaceuticals include all except
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A:-lodine-131
    B:-Phosphorus-32
    C:-Strontium-89
    D:-Radium-203
    Correct Answer:- Option-D
Question92:-In nasopharyngeal carcinoma, gross disease is given a total dose of
    A:-80 Gy
    B:-70 Gy
    C:-60 Gy
    D:-54 Gy
    Correct Answer:- Option-B
Question93:-Left parotid gland radiation treatment is conventionally planned in which treatment position?
    A:-Supine with neck extended
    B:-Supine with neck flexed
    C:-Supine with head turned to left
    D:-Supine with head turned to right
    Correct Answer:- Option-D
Question94:-Level IV neck node include
    A:-Upper deep cervical lymph nodes
    B:-Lower deep cervical lymph nodes
    C:-Middle deep cervical lymph nodes
    D:-None of the above
    Correct Answer:- Option-B
Question95:-Palliative radiotherapy common schedules to spine metastasis include
    A:-50 Gy/25 fractions/5 weeks
    B:-65 Gy/20 fractions/5 weeks
    C:-30 Gy/10 fractions/2 weeks
    D:-None of the above
    Correct Answer:- Option-C
Question96:-In breast planning, brachial plexus dose volume constraints is kept at
    A:-maximum 54 Gy
    B:-Mean dose 54 Gy
    C:-Maximum 44 Gy
    D:-Mean dose 44 Gy
    Correct Answer:- Option-A
Question97:-Neo adjuvant radiotherapy is used for down staging and functional preservation in treatment of
    A:-astrocytoma brain
    B:-cancer lung
    C:-cancer rectum
    D:-none of the above
    Correct Answer:- Option-C
Question98:-Which chemotherapy drug is not used in concurrent chemo radiotherapy for anal cancer?
    A:-Adriamycin
    B:-Mitomycin C
    C:-5-flurouracil
    D:-Cyclophosphamide
    Correct Answer:- Option-A
Question99:-Early vocal cord cancers can be treated by all except
    A:-Radical radiotherapy
    B:-Trans oral laser micro surgery
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C:-Trans oral robotic surgery

D:-Total laryngectomy

Correct Answer:- Option-D

Question100:-Superior border in cancer cervix, external beam radiotherapy planning is taken as

A:-L2-L3 vertebral inter space

B:-L3-L4 vertebral inter space

C:-L5-S1 vertebral inter space

D:-None of the above

Correct Answer:- Option-B