

## **BRAINWARE UNIVERSITY**

## Term End Examination 2021 - 22

## Programme – Bachelor of Science in Medical Radiology & Imaging Technology Course Name – Modern Radiological & Imaging Techniques including Patient Care Course Code - BMRIT403

(Semester IV)

Time allotted: 1 Hrs.15 Min. Full Marks: 60

[The figure in the margin indicates full marks.]

Group-A (Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) The site for injection in peripheral venography is a) Palm b) Median cubital vein c) Popliteal vein d) Dorsum of foot (2) In upper limb venography, butterfly needle is inserted in a) Median cubital vein b) Cephalic vein c) Basilic vein d) Axillary vein (3) The maximum width of normal portal vein is a) 1 cm b) 3 cm c) 2 cm d) 4 cm (4) Contrast media used for ventriculography a) Ionic b) Non ionic d) Barium c) Oil-based (5) In infants, contrast injection for ventriculography is through a) Posterior fontanelle b) Anterior Fontanelle c) Lateral fontanelle d) Cervical spine (6) Iohexol comes in the category of a) Non ionic monomer b) Non-ionic dimer d) Ionic dimer c) Ionic monomer (7) Catheter used for coronary arteriography are a) Judkins coronary artery catheter b) Amplatz coronary artery catheter

d) None of these

c) Both (1) and (2)

(8) Regarding plain film before arthrography which	of the following is true
<ul> <li>a) Plain film in AP must be taken before arthrography</li> </ul>	b) Plain film is optional, but ultrasonography should be done
c) plain film in different views should be taken	d) None of these
(9) In 1835 the earliest discovery of pathogen causing	ng disease of silkworm is:
a) Bacteria	b) Fungus
c) Algae	d) Virus
(10) To safest and convenient site of the injection of	the contrast media in myelography is
a) Cervical route	b) Epidural space
c) Subarachnoid space between 1st and 2nd lumber vertebrae	d) Subarachnoid space between 3rd and 4th lumber vertebrae
(11) The choice of the contrast media in myelograph	y is
a) Oily contrast media	b) Gas
c) Ionic contrast media	d) Non-ionic water soluble contrast media
(12) Which of the following is not the emergency dru	ug
a) Adrenaline	b) Atropine
c) Buscopan	d) Amphetamine
(13) Adrenaline is given by which route	
a) IV only	b) SC only
c) Orally	d) SC,IM,IV
(14) Atropine causes	
a) Bradycardia	b) Tachycardia
c) Hypertension	d) None of these
(15) ALL of the following are true about atropine exc	cept
a) Pre-anaesthetic medicine	b) Lessen the degree of A-V block
c) Overcome the severe carotid sinus reflex	d) Decrease the heart rate
(16) Lignocaine is used as	
a) Antiarrhythmics	b) Anaesthetics
c) Both (1) and (2)	d) None of these
(17) Drugs used in anaphylactic reaction are all except	pt
a) Adrenaline	b) Hydrocortisone
c) Antihistaminic	d) Atenolol
(18) 1st step in CPR is	
a) Circulation maintenance	b) Airways clearance
c) Breathing management	d) BP monitoring
(19) Monomer of the iodinated contrast media contai	ins how many atoms of iodine
a) 1 atom	b) 2 atoms
c) 3 atoms	d) 4 atoms
(20) Which of the following is HOCM?	
a) Diatrizoate	b) Iohexol
c) Iopamidol	d) All of these
(21) Acid fast bacteria are	

a) Neisseria	b) Staphylococci	
c) Mycobacteria	d) All of these	
(22) " Schuller projection " basically done for -		
a) Petrous portion	b) Mastoid portion of temporal bone	
c) Mandible	d) EAM	
(23) Towards the mid line of the body means -		
a) Medial	b) Lateral	
c) Distal	d) Proximal	
(24) Increases in the angle of joint means -		
a) Flexion	b) Extension	
c) Abduction	d) Adduction	
(25) Movement of the sole of the foot towards the mo	edian plane means -	
a) Eversion	b) Inversion	
c) Depression	d) None of these	
(26) Which view is needed to see the joint space and	compare the anatomy of the knee?	
a) Knee AP	b) Knee Lateral	
c) Both Knee AP weight bearing	d) None of these	
(27) False statement about treatment of cardiac arrest is		
a) CPR should be done	b) Clear the airways constantly	
c) Continous cardiac monitoring	d) Intubation is not required	
(28) A patient has a decreased heart rate and low blo	od pressure. Which is wrong?	
a) The effect is caused by vagal stimulation	b) Treatment options include Beta blockers	
c) Treatment option includes atropine	d) Treatment option include the head low positions.	
(29) Myelography can be done		
a) Spinal cisternal route	b) Spinal lumbar route	
c) Both	d) None of these	
(30) The adult dose of the buscopan used in GIT is		
a) 20 mgm/IV	b) 40 mgm/IV	
c) 20 mgm/S/C	d) None of these	
(31) Most common complication of myelography is		
a) Hallucination	b) Nausea	
c) Headache	d) Sub-dural injection of contrast medium	
(32) Which one of the following contrast media is us	ed in myelography?	
a) Isohexol	b) Urografin	
c) Prohance	d) Gadobutrol	
(33) Which of the following is contraindicated in myelography?		
a) Local sepsis	b) Clotting disorder	
c) Iodine sensitivity	d) All of these	
(34) Catheterisation used for are arteries		
a) Brachial artery	b) Axillary artery	
c) Femoral artery	d) All of these	

(35) The lead equivalent thickness of the glass viewing	window of the control panel is
a) 2.0 mm	b) 1.5 mm
c) 3.0 mm	d) 1.0 mm
(36) Cardinal principal of radiation protection	
a) Time	b) Distance
c) Shielding	d) All of these
(37) Disadvantage of lead apron is	
a) It does not cover arms	b) It has much weight
c) It does not cover thyroid	d) All of these
(38) The unit of the absorbed dose is	
a) Roentgen	b) Rad
c) Sievert	d) Gray
(39) What happens when arterial pressure decreases?	
a) Decreased arterial pressure	b) Increased arterial pressure
c) Increased cardiac output	d) Decreased cardiac output
(40) Aorta has	
a) 2 parts	b) 3 parts
c) 4 parts	d) 8 parts
(41) Which of the following is .refers to the imaging of media?	evessels after the injection of contrast
a) Contrast procedure	b) angiography
c) intervenal	d) conventional fluoroscopy
(42) The density of opacified vessels in the	
a) subtraction	b) mask
c) angiography	d) angioplasty
(43) BAV Stands for	
a) Balloon aortic valvulopl	b) Balloon aortic venography
c) Blood aortic valvuloplasty	d) B/L aortic valvuloplasty
(44) ERCP is a procedure that enables your physician to	o examine the
a) pancreatic	b) Bile Duct
c) CBD	d) Both a&B
(45) PTFE stands for	
a) Polytetrafluoroethylene	b) Poly tera fluorine
c) Poly tera fluorine ethelene	d) Poly tera fluorine enzyme
(46) Lengths of guide wire measured in	
a) cm	b) meter
c) inch	d) ft
(47) DSA is a	
a) Contrast procedure	b) routine procedure
c) Intervental procedure	d) A&C

(48) Aneurysms is a		
a) Normal Anatomical structure	b) abnormal anatomical structure	
c) pathology of blood vesseles	d) Both A&c	
(49) Percutaneous transhepatic biliary interventions are indicated in patients with obstructive jaundice due to tumour compression or invasion in the, benign congenital or acquired biliary stenoses, or complications after liver transplantation.		
a) Biliary system	b) Reproductive system	
c) urinary system	d) Excretory system	
(50) The biological effects of radiation in interventional procedure on an organ or tissue depend not only on the level of absorbed dose but also on the of the radiation.		
a) quantity	b) quality	
c) Both A&B	d) none of these	
(51) Which of the following tip of catheter consider as a atraumatic?		
a) Beveled	b) Rounded	
c) Angled	d) none of these	
(52) Dose-area product provides a practical indication of overall patient exposure relevant to the assessment ofrisk.		
a) Stochastric	b) Deerministic	
c) Genetic	d) none of these	
(53) Pulsed radiofrequency fields are an emerging technology used in the medicine for the treatment of		
a) Tumors	b) Cardiac arrhythmias	
c) Chronic and post-operative pain	d) All of the above	
(54) Ioxaglate is a		
a) ionic dimer	b) ionic monomer	
c) non ionic dimer	d) non ionic dimer	
(55) Typically,iodine atoms are delivered with ea	ich benzene ring of a contrast medium.	
a) two	b) three	
c) four	d) six	
(56) Angiography image in DSA procedure is acquired	through subtraction process	
a) PIXEL TO PIXEL	b) PIXEL TO VOXEL	
c) MATRIX TO PIXEL	d) ALL OF THESE	
(57) Digital subtraction angiography use of interest.	to deliver the contrast media to the site	
a) catheter	b) STENT	
c) GUIDE WIRE	d) NEEDLE	
(58) Iodine was discovered by French chemist Bernard Courtois in		
a) 1811	b) 1890	
c) 1789	d) 1976	
(59) form itself must be comprehensive and cover all issues of importance, including major and common complications, based on an explanation given to the patient and his/her relatives/friends, in their own language		
a) Requisition	b) consent	
c) Report	d) Preccription	

(60) Iofendylate contrast media is .....based.a) waterb) oilc) Bariumd) all of these