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TEE/BMRIT305/2019/2021 - 22



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## **BRAINWARE UNIVERSITY**

## Term End Examination 2021 - 22

## Programme – Bachelor of Science in Medical Radiology & Imaging Technology Course Name – Contrast & Special Radiography procedures Course Code - BMRIT305

(Semester III)

Time: 1 Hr.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) Type of contrast include: a) Positive contrast b) Negative contrast c) Neutral contrast d) Both Positive contrast & Negative contrast (2) Route of contrast administration includes all of the following except: a) Oral b) Intramuscular c) Intravenous d) Enema (3) Gadolinium is a type of: a) Paramagnetic contrast agent b) Monocrystalline iron oxide nanocompound c) Metalloporphyrin d) Diamagnetic (4) Which of the following is not a property of contrast media? a) Osmolarity b) Viscosity c) Toxic d) Miscible (5) All are dose dependent side effects except: a) Metallic taste b) Nausea and vomiting c) Flushing d) Urticarial (6) Which of the following is not used for treatment of pulmonary edema? a) Oxygen mask b) Methyl prednisolone c) Chlorpheniramine d) Hydrocortisone (7) Which is the most common oral contrast agent used:

b) Gastrografin

d) All of these

a) Barium sulfate

c) Gadolinium

(8) Uses of blood pool contrast agents include all e	xcept:
a) Cardiac imaging	b) Gastrointestinal bleeding
c) Tumor angiogenesis	d) Splenic infarction
(9) Which of the following is not an MRI contrast a	agent?
a) Gadolinium	b) Introl
c) Metalloporphyrins	d) Dextrans
(10) Spin-spin relaxation effect is produced by:	,
a) Positive contrast agents	b) Negative contrast agents
c) Both Positive contrast agents & Negative contrast agents	d) None of these
(11) Advance of oral contrast agents include:	*
<ul> <li>a) Adequate distension of bowel by the oral contrast agents helps in easy detection of bowel pathology</li> </ul>	b) Iso-osmotic contrast agents without orally administered
<ul> <li>c) For bowel wall enhancement iso-osmotic co ntrast agents can be used with positive IV co ntrast</li> </ul>	d) All of these
(12) Drug used for mild anaphylactic reaction is:	
a) Chlorpheniramine	b) Adrenalin
c) Gastrografin	d) None of these
(13) Metalloporphyrins are used as contrast agents of	lue to:
a) High solubility	b) High tixicity
c) Selective retention in tumor cells	d) All of these
(14) Heme proteins act as contrast agents because:	,
a) Presence of copper	b) Presence of iron
c) Presence of calcium ions	d) Presence of magnesium
(15) The amount of oral contrast medium used in C	Γ abdomen is
a) 5 ml	b) 100 ml
c) 10 ml	d) 1000 ml
(16) Iohexol comes in the category of	2) 1000 III
a) Non-ionic dimer	b) Ionic monomer
c) Ionic dimer	d) Non-ionic mopnomer
(17) Idiosyncratic contrast medium reactions arte	a) Profile mopnomer
a) Anaphylactoid	b) Anymenter:
c) Delayed hypersensitivity	b) Anyphylaxis
(18) In sickle cell anaemia following contrast mater	d) Immune complex type
a) Low osmolality contrast media	
c) Isosmolar	b) High osmolality contrast media
(19) Paramagnetic agents cause alteration in	d) Hyposmolar
a) Decrease T1 relaxation	1) 5
c) Increase T2 relaxation	b) Decrease T2 relaxation
	d) Increase T1 relaxation
(20) Positive bowel contrast agent for MRI scan is a) Water	
a) water	b) Ferrite

c) Barium sulphate	d) Gadolinium
(21) Breast feeding after contrast administration	should be avoided for
a) 48 hrs	b) 24 hrs
c) I week	d) Not required
(22) Buscopan is contraindicated in all, except:	© ity
a) Myasthenia gravis	b) Paralytic ileus
c) Pyloric stenosis	d) Open angle glaucoma
(23) Glucagon is contraindicated in all, except:	a) open angle gladeoma
a) Insulinoma	b) Glucagonoma
c) Phacochromocytoma	d) Glaucoma
(24) Following material is used for radionuclide	
a) Tc 99 m labeled red blood cells	b) Tc 99 m labeled white blood cells
c) FDG	d) Tc 99 m labeled parathyroid hormone
(25) Contrast enema in neonatal bowel obstruction	
a) Ionic contrast medium	b) Non-ionic contrast medium
c) Barium	d) Air
(26) For imaging duodenal loop in a barium exan	nination following position is preferred:
a) Supine	b) Prone
c) Left lateral	d) Right lateral
(27) Radiographic examination of salivary glands m is termed as	s and its ducts by means of contrast mediu
a) Ductography	b) Sialography
c) Sinography	d) Cholelithiasis
(28) 95% of adult spleens measure or	r less in length
a) 14 cm	b) 12 cm
c) 16 cm	d) 10 cm
(29) Intrahepatic ducts are dilated if their diamete ng portal vein branch	r is more than of the accompanyi
a) 50	b) 60
c) 40	d) 30
(30) Upper limit for pancreatic duct measurement	is
a) 8 mm	b) 3 mm
c) 6 mm	d) 10 mm
(31) After how much of a bolus injection, arterial	phase begins for CT abdomen
a) 50 s	b) 100 s
c) 25 s	d) 7 s
(32) Biliary contrast media are	
a) Monoiodobenzoic acid derivatives	b) Triiodobenzoic acid derivatives
c) Iodic acid derivativies	d) Barium derivatives
(33) T-Tube cholangiography is performed on	postoperative day
a) Eight	b) Six
c) Tenth	d) Two

(34) Following is the indication for biphasic scanni	ng of liver
a) Cirrhosis	b) Jaundice
c) Liver tumors	n of talkhingin
(35) How many days after operation that T-tube cho	•
a) 10-12 days	b) 12-15 days
c) 8 – 10 days	d) 15-18 days
(36) What is the length of chiba needle?	
a) 15-20 cm	b) 20-25 cm
c) 25-30 cm	d) 30-35 cm
(37) 1 F =	Es.
a) 0.0131 inch	b) 0.254 inch
c) 0.314 inch	d) 0.894 inch
(38) A patient is send to you by a clinical for IVP, b tion for contrast previously, what will be your a	ut the patient has history of allergic reac
a) IVP could not be done for such patient	b) No precaution needed
c) Can be done with low osmolar contrast medi um (LOCM)	d) Can be done under steroid cover and using I ow osmolar contrast media
(39) What is the role of preliminary oblique view in	IVP?
a) Should be done routinely	<ul> <li>b) Should be done in suspected cases of renal cell carcinoma</li> </ul>
c) Should be done in cases of hematuria	<ul> <li>d) Should be done in suspected cases of renal calculi but no calculus is seen in preliminary KUB film</li> </ul>
(40) Which of the following is true regarding 5 min	film of IVU?
a) Not mandatory	b) Invaluable in modifying the examination
<ul> <li>c) Compression should be applied prior to 5 min film</li> </ul>	d) Pelvicalyceal system is clearly seen in this fi
(41) Compression is contraindicated in all of the foll	owing conditions except
a) Following recent surgery	b) Following recent trauma
c) In cases with renal calculus	d) In cases with abdominal masses
(42) Which is the best view for UV junction calculus	s?
a) Plain film	b) Full film with compression
c) Post releasefilm	d) Post micturition film
(43) What is the role of prone film in IVU?	ay a set infectation mill
a) To look for residual urine	b) To look for ureter
<ul> <li>c) To look for pelvi ureteric junction of lower u reter</li> </ul>	d) To look for urinary bladder
44) Which is the best position to demonstrate the ur	eterocele?
a) Supine position	b) Prone position
c) Dead lateral view	
45) What is the major indication of retrograde pyelo	d) 30° oblique position
a) When patient is having urinary tract infection	b) When ureterocele is suspected
c) To demonstrate ureteric calculus	d) To demonstrate lower limit of preteric obstru

(46) Which of the following is true regarding conr	av-400?
a) It is a non-ionic contrast	b) It gives better image quality than omnipaque on IVP
<ul> <li>c) It is associated with fewer incidences of cont rast reactions</li> </ul>	d) Less cost effective
(47) In IVU, scout film is taken	Brainware Universit
<ul> <li>a) To check the exposure factors</li> </ul>	b) To check bowel preparation Remark -70012.
c) To see any calculus	d) All of these
(48) In IVU, what is the name of radiograph which ontrast media?	
a) Nephrogram	b) Ureterogram
c) Pyelogram	d) Full film
(49) In IVU, scout film is taken	
a) To check the exposure factors	b) To check the bowel preparation
c) To see any calculus	d) All of these
(50) Which is the best investigation to look for fallo	opian tube?
a) USG	b) MRI
c) CECT	d) HSG
(51) Which of the following is the relative contra in	dication for HSG.
a) Pregnancy	b) Pelvic inflammatory
c) Active mensturation	d) Severe iodine allergy
(52) HSG is done for	
a) Uterus	b) Uterine cavity
c) Fallopian tubes	d) All of these
(53) Indication of HSG	
a) Infertility	b) Recurrent abortion
c) Migrated IUCD and uterine and tubal lesion	d) All of these
(54) Leech Willkinson cannula used in	
a) Barium swallow	b) IVU
c) HSG	d) MCU
(55) What is corpus luteum	
a) It secretes progesterone and estradiol	b) It secretes only estradiol
c) It secretes only progesterone	d) It secretes only luteal hormone
(56) About bowel preparation for IVU study, following	
a) Laxative are given	b) Liquid diet advised day before study
c) Bowel preparation is not required	d) All of these
(57) Fluoroscopy imaging of the ileocecal valve is ge	
a) Esophagogram	b) Upper GI series
c) Small bowel series	d) Barium enema
(58) For double contrast study, contrast media should	have
a) High density, high viscosity 200-250%	b) High density, low viscosity 100-200%
c) Low density, high viscosity 200-250%	d) High density, low viscosity 200-250%

(59) In which modality 'no radiations' are involved?

a) Virtual colonoscopy

b) CT colonography

c) MR colonography

d) Barium enema

(60) In T-tube cholangiography, how much contrast is required?

a) 25-30 cc

b) 15-20 cc

c) 20-25 cc

d) 30-35 cc