

Online Examinations (Odd Sem/Part-I/Part-II Examinations 2021 - 2022)

Course Name - –Contrast & Special Radiography procedures

Course Code - BMRIT305

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Answer all the questions. Each question carry one mark.

10. 1. Type of contrast include:

Mark only one oval.

- Positive contrast
- Negative contrast
- Neutral contrast
- Both Positive contrast & Negative contrast

11. 2. Route of contrast administration includes all of the following except:

Mark only one oval.

- Oral
- Intramuscular
- Intravenous
- Enema

12. 3. Gadolinium is a type of:

Mark only one oval.

- Paramagnetic contrast agent
- Monocrystalline iron oxide nanocompound
- Metalloporphyrin
- Diamagnetic

13. 4. Which of the following is not a property of contrast media?

Mark only one oval.

- Osmolarity
- Viscosity
- Toxic
- Miscible

14. 5. All are dose dependent side effects except:

Mark only one oval.

- Metallic taste
- Nausea and vomiting
- Flushing
- Urticarial

15. 6. Which of the following is not used for treatment of pulmonary edema?

Mark only one oval.

- Oxygen mask
- Methyl prednisolone
- Chlorpheniramine
- Hydrocortisone

16. 7. Which is the most common oral contrast agent used:

Mark only one oval.

- Barium sulfate
- Gastrografin
- Gadolinium
- All of these

17. 8. Uses of blood pool contrast agents include all except:

Mark only one oval.

- Cardiac imaging
- Gastrointestinal bleeding
- Tumor angiogenesis
- Splenic infarction

18. 9. Which of the following is not an MRI contrast agent?

Mark only one oval.

- Gadolinium
- Iotrol
- Metalloporphyrins
- Dextran

19. 10. Spin-spin relaxation effect is produced by:

Mark only one oval.

- Positive contrast agents
- Negative contrast agents
- Both Positive contrast agents & Negative contrast agent
- None of these

20. 11. Advance of oral contrast agents include:

Mark only one oval.

- Adequate distension of bowel by the oral contrast agents helps in easy detection of bowel pathology
- Iso-osmotic contrast agents without orally administered
- For bowel wall enhancement iso-osmotic contrast agents can be used with positive IV contrast
- All of these

21. 12. Drug used for mild anaphylactic reaction is:

Mark only one oval.

- Chlorpheniramine
- Adrenalin
- Gastrografin
- None of these

22. 13. Metalloporphyrins are used as contrast agents due to:

Mark only one oval.

- High solubility
- High tixicity
- Selective retention in tumor cells
- All of these

23. 14. Heme proteins act as contrast agents because:

Mark only one oval.

- Presence of copper
- Presence of iron
- Presence of calcium ions
- Presence of magnesium

24. 15. The amount of oral contrast medium used in CT abdomen is

Mark only one oval.

- 5 ml
- 100 ml
- 10 ml
- 1000 ml

25. 16. Iohexol comes in the category of

Mark only one oval.

- Non-ionic dimer
- Ionic monomer
- Ionic dimer
- Non-ionic monomer

26. 17. Idiosyncratic contrast medium reactions arte

Mark only one oval.

- Anaphylactoid
- Anyphylaxis
- Delayed hypersensitivity
- Immune complex type

27. 18. In sickle cell anaemia following contrast material should be used

Mark only one oval.

- Low osmolality contrast media
- High osmolality contrast media
- Isosmolar
- Hyposmolar

28. 19. Paramagnetic agents cause alteration in

Mark only one oval.

- Decrease T1 relaxation
- Decrease T2 relaxation
- Increase T2 relaxation
- Increase T1 relaxation

29. 20. Positive bowel contrast agent for MRI scan is

Mark only one oval.

- Water
- Ferrite
- Barium sulphate
- Gadolinium

30. 21. Breast feeding after contrast administration should be avoided for

Mark only one oval.

- 48 hrs
- 24 hrs
- 1 week
- Not required

31. 22. Buscopan is contraindicated in all, except:

Mark only one oval.

- Myasthenia gravis
- Paralytic ileus
- Pyloric stenosis
- Open angle glaucoma

32. 23. Glucagon is contraindicated in all, except:

Mark only one oval.

- Insulinoma
- Glucagonoma
- Phacochromocytoma
- Glaucoma

33. 24. Following material is used for radionuclide imaging of gastrointestinal bleeding:

Mark only one oval.

- Tc 99 m labeled red blood cells
- Tc 99 m labeled white blood cells
- FDG
- Tc 99 m labeled parathyroid hormone

34. 25. Contrast enema in neonatal bowel obstruction uses:

Mark only one oval.

- Ionic contrast medium
- Non-ionic contrast medium
- Barium
- Air

35. 26. For imaging duodenal loop in a barium examination following position is preferred:

Mark only one oval.

- Supine
 Prone
 Left lateral
 Right lateral

36. 27. Radiographic examination of salivary glands and its ducts by means of contrast medium is termed as

Mark only one oval.

- Ductography
 Sialography
 Sinography
 Cholelithiasis

37. 28. 95% of adult spleens measure _____ or less in length

Mark only one oval.

- 14 cm
 12 cm
 16 cm
 10 cm

38. 29. Intrahepatic ducts are dilated if their diameter is more than _____ of the accompanying portal vein branch

Mark only one oval.

- 50
- 60
- 40
- 30

39. 30. Upper limit for pancreatic duct measurement is

Mark only one oval.

- 8 mm
- 3 mm
- 6 mm
- 10 mm

40. 31. After how much of a bolus injection, arterial phase begins for CT abdomen

Mark only one oval.

- 50 s
- 100 s
- 25 s
- 7 s

41. 32. Biliary contrast media are

Mark only one oval.

- Monoiodobenzoic acid derivatives
- Triiodobenzoic acid derivatives
- Iodic acid derivatives
- Barium derivatives

42. 33. T-Tube cholangiography is performed on _____ postoperative day

Mark only one oval.

- Eight
- Six
- Tenth
- Two

43. 34. Following is the indication for biphasic scanning of liver

Mark only one oval.

- Cirrhosis
- Jaundice
- Liver tumors
- Cholelithiasis

44. 35. How many days after operation that T-tube cholangiography done?

Mark only one oval.

10-12 days

12-15 days

8 – 10 days

15-18 days

45. 36. What is the length of chiba needle?

Mark only one oval.

15-20 cm

20-25 cm

25-30 cm

30-35 cm

46. 37. 1 F = _____

Mark only one oval.

0.0131 inch

0.254 inch

0.314 inch

0.894 inch

47. 38. A patient is send to you by a clinical for IVP, but the patient has history of allergic reaction for contrast previously, what will be your action?

Mark only one oval.

- IVP could not be done for such patient
- No precaution needed
- Can be done with low osmolar contrast medium (LOCM)
- Can be done under steroid cover and using low osmolar contrast media

48. 39. What is the role of preliminary oblique view in IVP?

Mark only one oval.

- Should be done routinely
- Should be done in suspected cases of renal cell carcinoma
- Should be done in cases of hematuria
- Should be done in suspected cases of renal calculi but no calculus is seen in preliminary KUB film

49. 40. Which of the following is true regarding 5 min film of IVU?

Mark only one oval.

- Not mandatory
- Invaluable in modifying the examination
- Compression should be applied prior to 5 min film
- Pelvicalyceal system is clearly seen in this film

50. 41. Compression is contraindicated in all of the following conditions except

Mark only one oval.

- Following recent surgery
- Following recent trauma
- In cases with renal calculus
- In cases with abdominal masses

51. 42. Which is the best view for UV junction calculus?

Mark only one oval.

- Plain film
- Full film with compression
- Post releasefilm
- Post micturition film

52. 43. What is the role of prone film in IVU?

Mark only one oval.

- To look for residual urine
- To look for ureter
- To look for pelvi ureteric junction of lower ureter
- To look for urinary bladder

53. 44. Which is the best position to demonstrate the ureterocele?

Mark only one oval.

- Supine position
- Prone position
- Dead lateral view
- 30° oblique position

54. 45. What is the major indication of retrograde pyelography?

Mark only one oval.

- When patient is having urinary tract infection
- When ureterocele is suspected
- To demonstrate ureteric calculus
- To demonstrate lower limit of ureteric obstruction

55. 46. Which of the following is true regarding conray-400?

Mark only one oval.

- It is a non-ionic contrast
- It gives better image quality than omnipaque on IVP
- It is associated with fewer incidences of contrast reactions
- Less cost effective

56. 47. In IVU, scout film is taken

Mark only one oval.

- To check the exposure factors
- To check bowel preparation
- To see any calculus
- All of these

57. 48. In IVU, what is the name of radiograph which is taken after 5 minutes of injection of contrast media?

Mark only one oval.

- Nephrogram
- Ureterogram
- Pyelogram
- Full film

58. 49. In IVU, scout film is taken

Mark only one oval.

- To check the exposure factors
- To check the bowel preparation
- To see any calculus
- All of these

59. 50. Which is the best investigation to look for fallopian tube?

Mark only one oval.

- USG
- MRI
- CECT
- HSG

60. 51. Which of the following is the relative contra indication for HSG.

Mark only one oval.

- Pregnancy
- Pelvic inflammatory
- Active menstruation
- Severe iodine allergy

61. 52. HSG is done for

Mark only one oval.

- Uterus
- Uterine cavity
- Fallopian tubes
- All of these

62. 53. Indication of HSG

Mark only one oval.

- Infertility
- Recurrent abortion
- Migrated IUCD and uterine and tubal lesion
- All of these

63. 54. Leech Wilkinson cannula used in

Mark only one oval.

- Barium swallow
- IVU
- HSG
- MCU

64. 55. What is corpus luteum

Mark only one oval.

- It secretes progesterone and estradiol
- It secretes only estradiol
- It secretes only progesterone
- It secretes only luteal hormone

65. 56. About bowel preparation for IVU study, following is falsea

Mark only one oval.

- Laxative are given
- Liquid diet advised day before study
- Bowel preparation is not required
- All of these

66. 57. Fluoroscopy imaging of the ileocecal valve is generally parts of an

Mark only one oval.

- Esophagogram
- Upper GI series
- Small bowel series
- Barium enema

67. 58. For double contrast study, contrast media should have

Mark only one oval.

- High density, high viscosity 200-250%
- High density, low viscosity 100-200%
- Low density, high viscosity 200-250%
- High density, low viscosity 200-250%

68. 59. In which modality 'no radiations' are involved?

Mark only one oval.

- Virtual colonoscopy
- CT colonography
- MR colonography
- Barium enema

69. 60. In T-tube cholangiography, how much contrast is required?

Mark only one oval.

- 25-30 cc
- 15-20 cc
- 20-25 cc
- 30-35 cc

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