

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - –Radiographic and Image Processing Techniques

Course Code - BMRIT204

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Answer all the questions. Each question carry one mark.

9. 1.A screen converts

Mark only one oval.

- Energy of the light to X-ray beam
- Energy of the X-ray beam to light
- Energy of the light to UV rays
- Energy of the UV to light rays

10. 2.The substratum layer or binding layer is made-up

Mark only one oval.

- Silver bromide crystals
- Gelatin plus acetone and water
- Gelatin
- None of these

11. 3.The silver halide crystal used in emulsion of X-ray film is

Mark only one oval.

- Silver bromide and Silver chloride
- Silver nitrate
- Silver iodide
- None of these

12. 4.Single coated films are used for

Mark only one oval.

- Mammography
- Ultrasound
- CT
- All of these

13. 5.The film boxes are arranged vertically upon the shelf in store room

Mark only one oval.

- To avoid pressure on the film
- To avoid light leaking
- To minimize the space
- For convenience

14. 6.Which is not true for green sensitive films ?

Mark only one oval.

- Less stable sensitometric response
- Improve image quality and sharpness
- Low replacement rates needed
- Better resistance to scratches

15. 7.The speed of film depends on:

Mark only one oval.

- Thickness of base
- Film Density
- Thickness of emulsion
- Latitude

16. 8.Scattered radiation can be minimized in PNS X-Ray by using of

Mark only one oval.

- Cone
- Beam limiting device
- Filter
- Cylinder

17. 9.The primary function of the filtration is to reduce

Mark only one oval.

- Image noise
- Scattered radiation
- Radiation dose
- To minimize the soft low energy photons-thus reducing patient skin dose.

18. 10.Radiation that deviates in other direction while passing through the part is termed as

Mark only one oval.

- Leakage radiation
- Primary radiation
- Remnant radiation
- Scattered radiation.

19. 11.Scattered radiation is also known as

Mark only one oval.

- Secondary radiation
- Backscattered radiation
- Primary radiation
- None of these

20. 12.TVL is =

Mark only one oval.

- 3.32 HVL
- 1 HVL
- 4.78 HVL
- 2.5 HVL

21. 13.Green yellow spectrum is sensitive to

Mark only one oval.

- Monochromatic film
- Orthochromatic film
- Panchromatic film
- None of these

22. 14.Fluorescence signifies

Mark only one oval.

- Light emitted by screen within 10^{-8} sec
- Light emitted by screen after 10^{-8} sec
- Light emitted by screen at 10^{-8} sec
- None of these

23. 15.Intensifying screens are not used in

Mark only one oval.

- Mammography
- Ultrasound
- Both Mammography and Ultrasound
- None of these

24. 16.Single screen cassettes are used in

Mark only one oval.

- Mammography
- Angiography
- Orthodontic radiography
- Ultrasound

25. 17.The first automatic film processor was developed in England without drying section by

Mark only one oval.

- Kodak
- Siemens
- GE
- Potter

26. 18.Safe light distance from the processing tank should not be less than

Mark only one oval.

- 1.2 meters
- 0.5 meter
- 0.8 meter
- 1.0 meter

27. 19.Amber safe light is compatible with films having

Mark only one oval.

- Blue sensitive film
- Green sensitive film
- Yellow sensitive film
- None of these

28. 20.Ceiling height in the dark room should be

Mark only one oval.

- 41 feet
- 31 feet
- 21 feet
- 11 feet

29. 21.A densitometer is:

Mark only one oval.

- A meter used to measure X-ray intensity
- An instrument for measuring film density
- A meter used to measure the density of a material
- A meter used to measure tube current

30. 22.With accidental exposure to X-rays film fog

Mark only one oval.

- Increases
- Decreases
- No effect
- None of these

31. 23.The usual thickness of the radiographic film is about

Mark only one oval.

0.05 mm

0.25 mm

0.75 mm

1.00 mm

32. 24.Which is not the material used in base of X-ray film?

Mark only one oval.

Cellulose triacetate

Polyester

Card board

None of these

33. 25.The phosphor used in manufacturing the X-ray films are

Mark only one oval.

Silver nitrate

Silver bromide

Calcium tungstate

Sodium sulphite

34. 26.The cellulose acetate based films are _____ films.

Mark only one oval.

- Inflammable
- Non flammable
- Safer
- Breakable

35. 27.Medical X-ray sheet film has base thickness of

Mark only one oval.

- 0.18 mm
- 0.03 mm
- 1.5 mm
- 0.0001 mm

36. 28.Which is not true for green sensitive films?

Mark only one oval.

- Uses T-grain silver halide
- Antistatic layer present
- With less exposure, more sharp image
- Does not require green light emitting screens

37. 29.Silver halide in emulsion of X-ray films are

Mark only one oval.

- 90% silver iodide and 10% silver bromide
- 90% silver iodide and 10% silver iodide
- 90% silver iodide and 10% silver chloride
- None of these

38. 30.Density is proportional to

Mark only one oval.

- Increase in exposure
- Increase in amount of silver present
- Increase in developing time
- All

39. 31.The speed of film depends on

Mark only one oval.

- Thickness of base
- Film Density
- Thickness of emulsion
- Latitude

40. 32.What is the function of lead in X-Ray cassette?

Mark only one oval.

- Reduce patient dose
- Prevent back-scattered radiation
- Increase patient dose
- None of these

41. 33.Cylinder is mainly used for

Mark only one oval.

- Mastoid air cell study
- Sinus study
- Chest X-Ray
- Orbit study

42. 34.Which of the following is the main source of scattered radiation

Mark only one oval.

- Cassette
- X-Ray tube
- Patient
- Grid

43. 35.The inverse square law: As the distance increases by a factor 2, the radiation intensity decreases by a factor of _____?

Mark only one oval.

- 4
- 2
- 6
- 8

44. 36.HVL is stands for

Mark only one oval.

- Half value layer
- Half value light
- High value layer
- None of these

45. 37.Monochromatic films are sensitive to colors of the spectrum

Mark only one oval.

- One color
- Two color
- Three color
- All colors

46. 38.Which is not true about intensifying screens?

Mark only one oval.

- Does not convert the energy of X-ray film to visible light
- Terbium acts as activator
- Addition of certain dyes extends sensitivity of the film
- Decrease the resolution of the image

47. 39.Fluorescence signifies

Mark only one oval.

- Light emitted by screen within 10^{-8} sec
- Light emitted by screen after 10^{-8} sec
- Light emitted by screen at 10^{-8} sec
- None of these

48. 40.Fluorescent material used in intensifying screen is

Mark only one oval.

- Silver bromide
- Calcium tungstate
- Calcium carbonate
- Potassium bromide

49. 41.All of the following are phosphor material except

Mark only one oval.

- Rare earth materials used for making screens
- Calcium tungstate
- Silver bromide
- Calcium iodide

50. 42.Intensifying screens are made-up of

Mark only one oval.

- Iron
- Carbon
- Polyester
- Aluminium

51. 43.Rare earth screen are all except of the following

Mark only one oval.

- Lanthanum oxybromide
- Lanthanum oxysulphide
- Calcium tungstate
- Gadolinium oxysulphide

52. 44.Which of the following phosphor not used in intensifying screen

Mark only one oval.

- Calcium tungstate
- Zinc cadmium sulfide
- Terbium
- Thulium blue

53. 45.Which is not true about X-ray cassettes?

Mark only one oval.

- Keep film screen in close
- Front side of the cassette is made-up of aluminium
- Is a light tight box
- Back side of the cassette is made-up of carbon fiber

54. 46.The device to keep the X-ray film for exposure

Mark only one oval.

- X-ray cassette
- X-ray magazine
- X-ray box
- X-ray container

55. 47. Lead equivalent of the cassette back is

Mark only one oval.

0.18 mm

0.18 cm

0.12 mm

0.12 cm

56. 48. Function of the cassettes

Mark only one oval.

To hold intensifying screens and protect them from damage

To exclude all lights from entering the cassette and fogging the film

To maintain a close and uniform contact between film and screen

All

57. 49. Loading and unloading of the cassettes

Mark only one oval.

Should take place under safe light conditions

Should be done gently

Unexposed film is lightly lowered into the cassette well

All

58. 50.The X-rays after transmission through the film screen combination undergo following interaction in the back cover of the cassette

Mark only one oval.

- Compton
- Photoelectric
- Elastic scatter
- Pair production

59. 51.Closest to x-ray film. 10-20 um thick

Mark only one oval.

- Phosphor layer
- Base
- Reflexive layer
- Protective layer

60. 52.Active layer; admits light during stimulation by x-ray. Converts radiation into visible light.

Mark only one oval.

- Phosphor layer
- Base
- Protective layer
- Reflective layer

61. 53. Front side of the cassette is made up of

Mark only one oval.

- Carbon fiber
- Aluminium
- Iron
- Lead

62. 54. Put the processor operation in the correct order

Mark only one oval.

- Wetting, rinse, washing, fixing, drying
- Rinse, fixing, wetting, washing, drying
- Wetting, rinse, fixing, washing, drying
- Fixing, washing, wetting, drying, rinse

63. 55. Which is not true for the latent image of X-ray film to form?

Mark only one oval.

- Sensitivity specks
- Silver ion is reduced to silver atoms
- Latent image forms after exposure of film
- Latent image forms after development of film

64. 56.Which of the following is the accelerator in the developer?

Mark only one oval.

- Sodium carbonate and sodium hydroxide
- Potassium carbonate
- Ammonium bromide
- None of these

65. 57.The function of the accelerators in the developer is

Mark only one oval.

- To stop the development
- To decrease the rate of the development
- To increase the rate of the development
- None of these

66. 58.Film is agitated during development

Mark only one oval.

- To increase the development
- To maintain uniform development of film
- To maintain the uniform temperature of solution
- All

67. 59.The range of concentration of pH in the developing chemicals are

Mark only one oval.

- 10.0 to 11.5
- 7.0 to 10.0
- 5.0 to 7.0
- 12.0 to 15.0

68. 60.The concentration, temperature of solution along with agitation of film determines the

Mark only one oval.

- Rate of development of the film
- Technique of the development of the film
- Rate of the fixing of the film
- None of these

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