

# Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

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. Inherent film fog is

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- D = 0.2
- D = 0.12
- D = 0.4
- D = 0.5

10. 2. A screen converts

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- 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

11. 3. 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

12. 4. The silver halide crystal used in emulsion of X-ray film is

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

13. 5. Which of the following is not the advantage of double coated-ray film?

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- With less exposure, better contrast
- Stability of film
- Prevent curling of film
- None of these

14. 6.Which of the following is not true double-coated film

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- Crystal is 1 micrometer in size
- Each crystal can have  $10^6$  silver atoms
- Effected by mechanical pressure
- Emulsion is not sensitive to visible light

15. 7.The super coating is made-up of

*Mark only one oval.*

- Cellulose
- Varnish
- Gelatin
- Silver iodide

16. 8.Single coated films are used for

*Mark only one oval.*

- Mammography
- Ultrasound
- CT
- All of these

17. 9.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

18. 10.Unexposed silver halide has an electrostatic charge

*Mark only one oval.*

- Positive
- Neutral
- Negative
- None

19. 11.Which is not true for green sensitive film?

*Mark only one oval.*

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

20. 12.Which is not true about film contrast?

*Mark only one oval.*

- Inversely proportional to object film distance
- Inversely proportional to filtration
- Inversely proportional to film size
- Inversely proportional to focal spot size

21. 13.The speed of film depends on:

*Mark only one oval.*

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

22. 14.Scattered radiation can be minimized in PNS X-Ray by using of

*Mark only one oval.*

- Cone
- Beam limiting device
- Filter
- Cylinder



23. 15.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.

24. 16.Which is not true about the optical density of the film –

*Mark only one oval.*

- Density of the film is the sum of the densities on each side
- Inversely proportional to the number of the atoms in that area
- Directly proportional to the weight of the silver ions in that area
- Equal to the log 10 transmitted light- incident light

25. 17.The replenisher solution does not contain

*Mark only one oval.*

- Metal
- Hydroquinone
- Phenidione
- Potassium bromide

26. 18.The working distance from the safe light to the film should not be less than

*Mark only one oval.*

0.10 meter

1.2 meters

5 meters

15 meters

27. 19.Ceiling height in the dark room should be

*Mark only one oval.*

41 feet

31 feet

21 feet

11 feet

28. 20.Amber safe light is compatible with films having

*Mark only one oval.*

Blue sensitive film

Green sensitive film

Yellow sensitive film

None of these

29. 21. Which of the following material use for identification in radiography

*Mark only one oval.*

Al

Cu

Cl

Pb

30. 22. The first automatic film processor was developed in England without drying section by

*Mark only one oval.*

Kodak

Siemens

GE

Potter

31. 23. The replenisher does not contain

*Mark only one oval.*

Potassium bromide

Mettol

Hydroquinone

Phenidione

32. 24.The preservative in the developing solution is for

*Mark only one oval.*

- To stop the development
- To decrease the rate of the development
- To prolong the effective life span of the developer
- None of these

33. 25.What does rinsing do?

*Mark only one oval.*

- Remaining chemicals are washed from the film
- Removes excess developer from the emulsion; stops the development process
- Film is dried to remove the water and make it acceptable for handling and viewing
- Silver halide that was not exposed to radiation is dissolved and removed from the emulsion

34. 26.Single screen cassettes are used in

*Mark only one oval.*

- Mammography
- Angiography
- Orthodontic radiography
- Ultrasound

35. 27.Intensifying screens are not used in

*Mark only one oval.*

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

36. 28.The speed of the intensifying screen primarily depends upon

*Mark only one oval.*

- Type of the film
- Size of the focal spot
- Size of the phosphor crystals
- Material used for the cassette

37. 29.Non-screen films are used for

*Mark only one oval.*

- Thin part of the body
- Thick part of the body
- Less exposure technique
- None of these

38. 30. Fluorescence signifies

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- 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

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