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 Assignment # CR and DR
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Q. NO. 1:+

Ans:+

* Digital Radiograph Artifacts *

- Detectors image leg oo ghosting latent image from previous exposure present on current exposure.
- Incorrect detectors orientation upside - down cassette.
- Backscatter.
- Streaking artifacts.
- Over exposure.
- Dead pixel artifacts
- Signal dropout.
- Speckled radiographic spots. we will avoid them proper positioning. proper exposure and proper MA, KVP.

Q. NO. 2 :-

Ans:-

* Digital Subtraction Angiography :-

Digital Subtraction Angiography (DSA) is a technique used in interventional radiology to clearly visualize blood vessels, in a bony or dense soft tissue environment. Images are produced using contrast medium by subtracting a "pre-contrast" or "mask" image from the contrast image once the contrast medium has been introduced into a structure. Hence the term Digital Subtraction Angiography.

Q. NO. 3 :-

Ans :-

* Disadvantage of Digital Radiography :-

- Training and Learning Curve.
- Must learn machinery technology & positioning.
- Must still adhere to Good technique for acquiring images.
- Equipment Cost.
- Initial Cost is high compared with traditional radiography. Technology associated with digital radiology (Computer, Scan etc.)

G. NO. 4 #

Ans: (4)

* Image quality of Screen and
Film Radiography vs
Digital Radiography:

resolution is better in
digital radiography by
an order of magnitude.
Compared with Screen

Film radiography Solid.
state flat panel detectors
provide better quality
with ten radiation
dose compared with
Screen Film radiography.

The digital radiography
Film image quality
is better than the
Screen Film image
quality superior than
the Screen Film
radiography.

Q. NO. 5 #

Ans: (5)

* Difference b/w image receptor iography and Conventional radiography and digital rad-

receptor may be the image
 Conventional film-screen
 or most likely a
 photosensitive plate as in phosphor
 radiography (CR) or a charged
 electronic device as in
 digital radiography
 also known as direct
 digital radiography (DR)
 the image receptor
 in CR is a
 photostimulable phosphor
 plate.

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