

## Unit 9 - Week 7

### Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Radiography - 1

Radiography - 2

Radiography - 3

Radiography - 4

Radiography - 5

Quiz : Week 7 practice Assessment

Quiz : Assignment 7

Week 7 Feedback : Theory and Practice of Non Destructive Testing

Week 8

Text Transcripts

Download Videos

## Assignment 7

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2020-03-18, 23:59 IST.**

1) Radiography test uses the frequency range of:

1 point

$10^{20}$  to  $10^{24}$  Hz

$10^{15}$  to  $10^{17}$  Hz

$10^{17}$  to  $10^{20}$  Hz

$10^{13}$  to  $10^{14}$  Hz

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
 $10^{17}$  to  $10^{20}$  Hz

2) When you increase the wavelength the energy in electromagnetic radiation will:

1 point

Decrease

Increase

No-change

Both a and b

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Decrease

3) What is the source of contrast in a radiographic test?

1 point

Difference in density

Difference in thickness

Both a and b

None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Both a and b

4) Another name for a penetrometer is:

1 point

Radiographic shim

Image quality indicator

Density standard

Acceptance standard

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Image quality indicator

5) Which of the following is used as a quality indicator in radiographic testing?

1 point

Metal intensifier screens

Penetrameter

AgBr particles

Lead Screen

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Penetrameter

6) Secondary radiation caused by any material, such as a wall or floor, on the film side of specimen is referred to as:

1 point

Primary scattering

Undercut

Reflected scattering

Backscattered radiation

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Backscattered radiation

7) The intensifying action of lead screens is caused by:

1 point

Secondary gamma ray emission

Secondary X-ray emission

Electron emission

Fluorescence of lead screens

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Electron emission

8) When you use the wire based penetrameter, which of the following you will consider for determining the quality of the image?

0 points

Number of the thinnest wire

Number of the thickest wire

Both a and b

None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Number of the thinnest wire

9) Select the appropriate position to keep the penetrameter

0 points

Between the source and the sample

Between sample and photosensitive film

Below the photosensitive film

None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Between the source and the sample

10) Wavelength of X-ray radiation are in the range of:

1 point

$10^{-8}$  to  $10^{-10}$  m

$10^{-5}$  to  $10^{-10}$  m

$10^{-7}$  to  $10^{-10}$  m

$10^{-6}$  to  $10^{-10}$  m

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
 $10^{-8}$  to  $10^{-10}$  m