

Unit 13 - Week 11: Reactor Safety & Security

Course outline

How does an NPTEL online course work?

Week 0 : Prerequisite

Week 1: Fundamentals of Nuclear Power

Week 2 : Radioactivity and nuclear Reactions

Week 3 : Nuclear Fission

Week 4: Chain Reaction in Reactors

Week 5 : Reactor Thermalhydraulics

Week 6: Reactor Control

Week 7: Thermal Reactors

Week 8: Breeder Reactors

Week 9: Nuclear Fusion

Week 10: Biological Effects of Radiation

Week 11: Reactor Safety & Security

Lec 1: Lessons from TMI & Chernobyl

Lec 2: Defence-in-depth Philosophy

Quiz : Assessment 11

Feedback form

Week 12: Waste Management

Text Transcripts

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Assessment 11

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

Due on 2020-04-15, 23:59 IST.

1) TMI nuclear accident happened on

1 point

- March 28, 1978
 March 28, 1979
 September 28, 1979
 September 28, 1980

No, the answer is incorrect.
Score: 0

Accepted Answers:
March 28, 1979

2) Which unit of Chernobyl was involved in the accident?

1 point

- unit-1
 unit-2
 unit-3
 unit-4

No, the answer is incorrect.
Score: 0

Accepted Answers:
unit-4

3) Which among the following is not an aspect covered by the Defence-in-Depth philosophy?

1 point

- Prevention
 Monitoring
 Dismantling
 Action

No, the answer is incorrect.
Score: 0

Accepted Answers:
Dismantling

4) The second barrier provided as a part of the several physical barriers incorporated in a reactor generally is

1 point

- ceramic fuel pellet
 cladding
 pressure vessel
 concrete structure

No, the answer is incorrect.
Score: 0

Accepted Answers:
cladding

5) Which level of protection among the five conventional levels attempts to control the design-basis accidents?

1 point

- Level 1
 Level 2
 Level 3
 Level 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
Level 3

6) External emergency planning is a part of which level of protection?

1 point

- Level 5
 Level 4
 Level 3
 Level 2

No, the answer is incorrect.
Score: 0

Accepted Answers:
Level 5

7) Full form of ECCS is

1 point

- Emergency core cooling system
 Emergency core containment system
 Ejection core cooling system
 Ejection core containment system

No, the answer is incorrect.
Score: 0

Accepted Answers:
Emergency core cooling system

8) Fukushima accident is an example of level _____ accident according to nuclear accident scenario classification.

1 point

- 4
 5
 6
 7

No, the answer is incorrect.
Score: 0

Accepted Answers:
7

9) Natural circulation employs _____ force for fluid circulation.

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: String) buoyancy

1 point

10) Installation of multiple safety design to achieve a single safety function is known as _____.

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: String) redundancy

1 point