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B.E. VI Semester

Examination, June 2015

Nuclear Safety and Radioactive Materials

Time: Three Hours

Maximum Marks: 70

Note: All questions are compulsory. Attempt one question from each unit.

Unit - I

- Discuss the calculation of absorbed dose in media from ionization chamber using exposure dose in air.
 - How will you monitored air in a building where radioactive activities are carried out.

OR

- What is the role of dose equivalent, explain in detail.
 - What precautionary steps will be taken by you for Inimization of contamination.

Unit - II

- Draw a flow chart to show processing of solid waste in a 3. nuclear power plant.
 - Explain burial disposal method of radioactive solid waste.

OR

- Explain ion- exchange method for treatment of liquid 4. radioactive waste.
 - How will you minimize the radioactive waste at the source.

- 5. a) How will you storage and handle the radio isotopes.
 - Explain type A and type B laboratories.

OR

- Write short note on:
 - Fume hood
 - Ventilation system of radioactive labs.

Unit-IV

- Give the names of portable fire extinguishers.
 - Explain dry chemical powder extinguisher.

OR

- Explain fire fighting equipments.
 - How will you plan to minimize the radiation incident, Give a flow chart with explanation of all steps.

Unit - V

- Explain the role of heavy water in a Nuclear reactor. 9.
 - What steps you will take, if explosion takes place in a Nuclear reactor. http://www.rgpvonline.com

OR

- Write in brief case study of nuclear explosion takes place 10. a) is Japan recently.
 - b) Explain the bad effects of Nuclear power plant on the health of human being living in the near by area of Nuclear power plant.

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