

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID :

Roll No.

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B.TECH.

Theory Examination (Semester-VI) 2015-16

ENVIRONMENTAL RISK ASSESSMENT

Time : 3 Hours

Max. Marks : 100

Section-A

- 1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10 = 20)**

- (a) Which environmental risks are important?
- (b) List the characteristics of risk that should be considered during risk estimation.
- (c) Are the risks to the environment, other than to man, included in risk assessment?
- (d) Represent the WHO concepts of effects and response schematically.
- (e) Why modeling of risk is important?
- (f) Identify the purpose of environmental monitoring?

- (g) Define efficacy.
- (h) What are the questions among the factors often to be considered by risk assessors?
- (i) How to develop a national risk profile?
- (j) Mention the three main reasons which make international collaboration useful.

Section-B

Note: Attempt any 5 questions from this section. [10×5=50]

- 2. (a) State environmental risk. Explain why we need environmental risk management.
- (b) Although there is much development in risk management, their impact is not impressive globally. Why?
- 3. Mention the different risk equations and discuss them in detail.
- 4. Illustrate the environmental modeling by using any two types of example.
- 5. Elucidate the dose-effect relationships with neat curves representation.
- 6. Describe cost -benefit analysis and risk-benefit analysis methods in dealing risk problems.

7. Comprehend the legal considerations in evaluating the risks.
8. Outline the major areas of risk management tasks (or management control options).
9. Socio-economic connections between nations are important in international collaboration. Justify.

Section-C

Note: Attempt any 2 questions from this section. (15×2=30)

10.
 - (a) Explain the uncertainties in monitoring environmental risks.
 - (b) Interpret the testing and screening in evaluating the risk.
11. Summarize the following legislative considerations in risk evaluation
 - (a) Scientific criteria
 - (b) The No Risk Principle: Zero Exposure
 - (c) Efficacy
12.
 - (a) Concerning with global hazards elaborate the environmental links in risk management.
 - (b) Generalize the emerging needs and suggested action in risk management.