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[A-8]

SARDAR PATEL UNIVERSITY
M. Sc. Integrated Biotechnology (IG-EBT) 9th Semester
Theory Exam - October 2016
PS09CIGEB4 – Environmental Issues and Impact Assessment
24th October 2016 (Monday), 10:00 am to 1:30 pm

Maximum Marks: 70

- Note: 1) All the Questions are compulsory.
2) Figures on the right indicate marks.

1x8= 8

Q.1. Choose the correct option

(i) KSIM is a example of _____ method of EIA.

- [a] Adhoc [b] Mapping [c] Matrices [d] Modeling

(ii) _____ has published guidelines for different sectors which outline the significant issues to be addressed in the EIA studies.

- [a] Planning Commission [b] CPCB [c] MOEF [d] DBT

(iii) Map overlay method is also known as _____

- [a] McHemarg's method [b] McHarg's method
[c] McHemson's method [d] None of the above

(iv) Each industry should install AAQMS on a radius of _____ angle b/w each station.

- [a] 100° [b] 110° [c] 120° [d] 150°

(v) Full form of NEPA _____

- [a] National Environmental Protection Act
[b] National Environmental Policy Act
[c] National Environmental Performance Act
[d] None of the above

(vi) The terms of reference is fixed at which stage of EIA process?

- [a] Screening stage [b] Scoping stage
[c] Detailed EIA stage [d] Project Appraisal

(vii) 5th June is observed as _____

- [a] World forest day [b] World Wildlife day
[c] World Environment day [d] World population day

(viii) Which statement is not correct for hazardous wastes?

- [a] They contain one or more of 39 toxic compounds
[b] They catch fire easily
[c] They are nonreactive and stable
[d] They are capable of corroding metal containers

(1)

- Q.2.** Attempt any Seven of the following 2x7= 14
1. Define PTM and give their types.
 2. How Sondheim method is utilized in EIA studies.
 3. Define the role of WQT for water related project assessment.
 4. What are the limitations of Modeling method?
 5. Enlist six ecological sensitive areas which should exclude for the establishment of industries.
 6. Enlist different parameters need to be analysed to assess air pollution impact for the transport related project.
 7. What are strategic metals and minerals? Give 4 examples of strategic metals and Minerals?
 8. Salient features of the Water Act- objectives.
 9. Enlist the international agreements where India is signatory.

- Q. 3.** a. Ad-hoc method is one of the common methods of EIA: Comment [06]
b. Describe different phases of EIA cycle. [06]

OR

- b. (i) Discuss types and significance of matrices used in EIA study. [03]
(ii) Write a note on: Map Overlay method [03]

- Q. 4.** a. Discuss the guidelines according to Industries Development and Regulation Act for Industrial development. [06]
b. Write a note on 'Environmental Indicators of Water Quality' including 'Ecological Indicators'? [06]

OR

- b. Enlist & discuss different parameters that are included as part of planning & design phase of transport related project. [06]

- Q. 5.** a. Explain in detail the role of the CPCB and SPCB. [06]
b. Explain in brief the procedure and preparation of Documents for projects which require Environmental Clearance [06]

OR

- b. Explain in detail on environmental audit in India [06]

- Q. 6.** a. (i) Discuss the earth is layered sphere with suitable diagram. [03]
(ii) Discuss types of rocks and their formation. [03]
b. Enlist the various toxic heavy metals and explain the sources and adverse effect of these heavy metals on humans. [06]

OR

- b. What is urbanization? What are the causes of urban growth? Discuss in detail urban problems in developing countries. [06]

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(2)