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**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF ENGINEERING

TEST 1 EXAMINATION

Even Semester: 2021 - 22

Course Code: CIV 280

Course Name: Environmental Impact Assessment

Program & Sem: B. Tech & VI Sem

Date: 27th April 2022

Time: 10.00 AM to 11.00 AM

Max Marks: 30

Weightage: 15%

Instructions:

(i) Read the all questions carefully and answer accordingly.

Part A [Memory Recall Questions]

Answer all the Questions. Each question carries 1 mark.

(8Qx 1M= 8M)

1 Which of the following category of projects does not requires environmental clearance (EC) from regulatory authority?

(CO1, Knowledge)

- a) Category A
b) Category B1
c) Category B2
d) Both a and b

2 Notice of Public Hearing to be published in two widely circulated newspaper at least 30days prior to public hearing. Forward proceedings to the regulatory authority concerned within 45days. If not, MOEF can appoint another independent organization to do the same within another_____.

(CO1, Knowledge)

- a) 60 days
b) 45 days
c) 30 days
d) 20 days

3 There eight list of projects as per EIA notification requires to obtain Environmental Clearance (EC) from regulatory authorities. Which of the following project comes under physical infrastructure including environmental services?

(CO1, Knowledge)

- a) Mineral beneficiation
b) Ports and Harbors
c) Distilleries
d) Apartment and Township

4 There four stages in EIA process for developmental projects. Which is the 2nd stage in EIA process?

(CO1, Knowledge)

- a) Appraisal
b) Public consultation
c) Scoping
d) Screening

5 TOR or Terms of Reference is a document produced by the authority conducting the EIA study. The approved TOR shall be displayed on the website of the _____

(CO1, Knowledge)

- a) MoEF or SEIAA
b) SEAC or SEIAA
c) EAC or SEAC
d) CPCB or SPCB

6 According to EIA notification 2006 buildings with built up area of more than _____ meter square and townships with area more than _____ meter square of built up area comes under EIA. (CO1, Knowledge)

- a) 20000 and 500000
- b) 2000 and 50000
- c) 200 and 5000
- d) None of the above

7 The foundation of EIA in India was first laid in 1976-77 when the Planning Commission asked the then Department of Science and Technology (DST) to examine _____ projects from an environmental angle.

- a) River valley projects
- b) Mining projects
- c) Irrigation projects
- d) Nuclear power projects

8 If TOR not finalized and conveyed to the applicant by appraisal committee within sixty days of the receipt of Form 1, TOR suggested by whom shall be deemed as the final TOR approved for the EIA studies?

- a) The public
- b) The applicant
- c) The consultancy
- d) None of the above

Part B [Thought Provoking Questions]

Answer all the Questions. Each question carries 4 marks. (3Qx4M=12M)

9 The new EIA notification was introduced by the Ministry of Environment and Forests (MoEF) on September 14, 2006 to overcome the constraints of original EIA notification 1994. What are the identified constraints in EC process under EIA notification 1994?

[4M] (C.O.No.1) [Comprehension]

10 Public consultation is the third stage in EIA process and compulsory for all major projects as per the EIA notification 2006. Explain component-2 of the public consultation.

[4M] (C.O.No.1) [Comprehension]

11. Though the EIA establishes substantive national environmental policy that sets environmental protection priorities, several flaws are there. Enlist any six flaws of EIA.

[4M] (C.O.No.1) [Comprehension]

Part C [Problem Solving Questions]

Answer the Question. The question carries 10 marks. (1Qx10M=10M)

12 Projects activities or developmental works are broadly categorized in to two categories as per EIA notification 2006. Discuss general criterias and conditions applying for the categorization projects with flow chart of the same.

[10M] (C.O.No.1) [Comprehension]



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**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF ENGINEERING

TEST 2

Even Semester: 2021 - 22

Course Code: CIV 280

Course Name: Environmental Impact Assessment

Program & Sem: B. Tech & VI Sem

Date: 2nd June 2022

Time: 10.00 AM to 11.00 AM

Max Marks: 30

Weightage: 15%

Instructions:

- (i) *Read the all questions carefully and answer accordingly.*
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Part A [Memory Recall Questions]

Answer all the Questions. Each question carries ONE mark.

(5Qx 1M= 5M)

1. Which of the following is not a non-point source?

(CO₂, Knowledge)

- a) Effluent Animal feedlot
- b) Effluent from crop land
- c) Effluent from industry
- d) Storm water

2. How much is the noise frequency for infrasound?

(CO₂, Knowledge)

- a) Below 20 Hz
- b) Above 20 KHz
- c) Above 30 KHz
- d) None of the above

3. How much amount air sample can be sampled in high volume air sampler in a day?

(CO₂, Knowledge)

- a) 1000 cubic meter
- b) 1500 cubic meter
- c) 24 cubic meter
- d) 10 cubic meter

4. Which of the following is not an approach to mitigation?

(CO₂, Knowledge)

- a) Developing environmentally better alternatives to the proposal
- b) Making changes to project planning and design
- c) Carrying out impact monitoring and management
- d) Avoidance of Impact

5. What is the standard noise limit for silence areas during day time in decibels unit?

(CO₂, Knowledge)

- a) 75
- b) 65
- c) 55
- d) 50

Part B [Thought Provoking Questions]

Answer all the Questions. Each question carries FIVE marks.

(3Qx5M=15M)

6. Atmospheric stability and wind are the major factors influencing air pollutant dispersion and transportation. During summer the air parcel on ground level is warmer than surrounding environment. Identify the atmospheric condition and explain how it affects dispersion and transportation of pollutants with figure.

[5M] (C.O.No.2) [Comprehension]

7. Mitigation is the design and execution of measures to reduce, mitigate, or minimize the negative impacts of a project, work, or activity on human or natural environments. Impact mitigation is the major step involved in EIA Process. Classify the steps in the frame work for impact mitigation with neat sketch.

(C.O.No.2) [Comprehension]

8. Lakeport projects are related to developments in the shore regions of lakes, rivers, sea and other aquatic ecosystems. Lakeport projects affects physical, biological, geographical and socio cultural aspects of the project area. Enlist any four adverse impacts of Lakeport projects and identify suitable mitigation measures for the same.

(C.O.No.2) [Comprehension]

Part C [Problem Solving Questions]

Answer the Question and the question carries TEN marks.

(1Qx10M=10M)

9. One of the major impacts from many actions is evidenced by changes in water quality both in the vicinity and downstream from project areas. Construction of reservoirs, power plants, industrial parks, and pipe line will cause short –term impacts on the water Environment; and operation of these same facilities will result in longer-term impacts. Enlist the basic steps involved in prediction and assessment of impacts on water quality and discuss the factors which are considered as operational impacts of alternatives.

(C.O.No.2) [Comprehension]



**PRESIDENCY UNIVERSITY
BENGALURU**

SCHOOL OF ENGINEERING

END TERM EXAMINATION

Winter Semester: 2021 - 22

Course Code: CIV 280

Course Name: Environmental Impact Assessment

Program & Sem: B.Tech & VI Sem

Date: 1st July 2022

Time: 9:30 AM to 12:30 PM

Max Marks: 100

Weightage: 50%

Instructions:

- (ii) Read the all questions carefully and answer accordingly.
(iii) Question paper consists of 3 parts.

Part A

Answer all the Questions. Each question carries FIVE marks.

(6Qx 5M= 30M)

1. Well planned and appropriately implemented public involvement programmes will contribute to EIA studies and to the successful design, implementation, operation and management of proposals. Define public participation? Distinguish the 'public' and 'public concerned' means. (C.O.No.3) [Knowledge]
2. The new EIA notification was introduced by the Ministry of Environment and Forests (MoEF) on September 14, 2006 to overcome the constraints of original EIA notification 1994. What are the identified constraints in EC process under EIA notification 1994? (C.O.No.1) [Knowledge]
3. The environmental issues likely to develop during project construction and operation phases, could be minimized by making necessary provision in the project design and adopting Environmental Management plan (EMP). What is EMP? How EMP and EIA are related? (C.O.No.3) [Knowledge]
4. Environmental Audit can be defined as a basic management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organizations, management systems and equipment are performing. Enlist any five benefits of environmental auditing. (C.O.No.4) [Knowledge]
5. Checklist is one of the impact identification method. What is checklist? Differentiate Scaling- weighing checklist and questionnaire checklist. (C.O.No.4) [Knowledge]
6. There are many natural and anthropogenic actions contaminates the lentic and lotic water sources. Differentiate point and nonpoint source of water pollution. (C.O.No.2) [Knowledge]

Part B

Answer all the Questions. Each question carries TEN marks.

(4Qx10M=40M)

7. The environmental impact assessment is an innovative process recommended by different international agencies as a valid environmental protection tool. EIA in India is carrying out based on EIA notification 2006. Depict rough timeline of EIA process and post environmental clearance. (C.O.No.1) [Comprehension]
8. The Wind and atmospheric condition are the two major factors affects transport and dispersion of air pollutants. Explain how unstable atmosphere during summer and stable atmosphere during winter affects the dispersal of polluted air with figures. (C.O.No.2) [Comprehension]
9. The major objectives of citizen participation plan to apply legal provisions on citizen participation and to promote citizen participation during the earliest stages of the environmental impact study. Brief the list of content and abstract information of the participation plan report. (C.O.No.3) [Comprehension]
10. The major purpose of Environmental auditing is to minimize negative impacts, enhance positive impacts and ensuring environmentally sustainable planning construction and operations management. The International Chamber of Commerce presents the different steps of an environmental auditing include pre-audit activities, site activities and post audit activities. Enlist and explain any five objectives of environmental auditing. (C.O.No.4) [Comprehension]

Part C

Answer both the Questions. Each question carries FIFTEEN marks.

(2Qx15M=30M)

11. Impact identification and impact analysis are the significant steps in EIA process. There are five different Methods of Environmental Impact Identification suggested by Warner 1973 for detail impact analysis.
 - a) Identify the impact identification method which integrates impact causes and consequences through primary, secondary and tertiary effects and discuss the advantages and disadvantages of it.
 - b) Identify the impact identification method which provide us a framework of interaction of different activities and impacts of the project and discuss advantages and disadvantages of it. (C.O.No.4) [Comprehension]
12. Public participation was made mandatory in environmental impact assessment (EIA) process by making amendment to 1994 original notification of EIA. In a highway project connecting Rajanukunte and Dodballapur Industrial Area causing socioeconomic and environmental Impacts. Public stakeholders has been invited for participation to discuss potential conflicts systematically. Enlist the public participation techniques as per to 2006 notification and discuss any four of it. (C.O.No.3) [Comprehension]

