



G1156

Pages 2

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Scheme for Valuation/Answer Key

Scheme of evaluation (marks in brackets) and answers of problems/key

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION (S), MAY 2019

Course Code: CE469

Course Name: ENVIRONMENTAL IMPACT ASSESSMENT

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any two full questions, each carries 15 marks.

Marks

- | | | | |
|---|-----|---|-----|
| 1 | (a) | 4 points – each point carries 1 mark | (4) |
| | (b) | Any 3 countries with description -6 marks | (6) |
| | (c) | 5 points – each point carries 1 mark | (5) |
| 2 | a) | Benefits of EIA - 5 points (sustainability, pollution prevention/mitigation, planning alternatives, adhering to standards etc.) | (5) |
| | b) | Environmental clearance process | (6) |
| | | Timeline | (4) |
| 3 | a) | Point sources-2.5 marks | (5) |
| | | Non Point sources-2.5 marks | |
| | b) | Impact- 1 x 5 = 5 marks | (5) |
| | c) | BOD-2.5 marks | (5) |
| | | COD-2.5marks | |

PART B

Answer any two full questions, each carries 15 marks.

- | | | | |
|---|----|--------------------------------|---------|
| 4 | a) | List | (1) |
| | | Explanation (any 3 sources) | (9) |
| | b) | Any 5 points | (5) |
| 5 | a) | Acid rain | (5 x 3) |
| | | Ozone layer depletion | |
| | | Global warming | |
| 6 | a) | Any 4 impacts - 3 mark each | (12) |
| | b) | Any 3 suggestions- 1 mark each | (3) |

PART C

Answer any two full questions, each carries 20 marks.

- | | | | |
|---|----|---------------|------|
| 7 | a) | Overlays (3) | (20) |
| | | Checklist (5) | |

Matrix (5)

Networks (7)

- 8 a) Standards of any 5 pollutants in the NAAQS, India ($5 \times 2 = 10$) (10)
 b) Explanation of environmental management plan in detail (10)
 9 a) Standards ($8 \times 1 = 8$) (10)

Explanation (2)

Area Code	Category of Area / Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

- Note:-
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
 2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
 3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
 4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

Note: Standards of noise with respect to vehicle, DG set, firecrackers etc. may be given due credit

- b) Explanation of any case study of EIA in detail (10)

