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|   |       |
|---|-------|
| Q.1 True or False   |       |
| a. Screening is done to see whether a project requires environmental clearance as per the statutory notifications   | False |
| b. Base line data describes the existing environmental status of the identified study area.   | True  |
| c. The site-specific primary data should be monitored for the identified parameters and supplemented by secondary data if available.  | True  |
| d. Impact prediction is a way of 'mapping' the environmental consequences of the significant aspects of the project and its alternatives.   | False |
| e. Selection of candidate site for any regulated developmental activity can be an effective approach in minimizing the requirement of mitigation measures for environmental impacts | True  |
| f. Participation of different stakeholders in EIA decision making at an early stage can avoid potentially costly delays later in the process by resolving conflict early            | True  |

[06]

False  
False

True

True

False

True

True

|   |   |
|---|---|
| Q.2 List suitable tools (Checklist/ Matrix/ Network) suggested for the following steps of EIA |   |
| i. Screening:   | checklist                               |
| ii. Scoping:  | checklist, Matrix                       |
| iii. Baseline studies:  | checklist, Matrix                       |
| iv. Analysis of Alternatives:   | Matrix, Network, checklist (1st 2 best) |
| v. Impact prediction:   | Matrix, Network                         |
| vi. Public consultation:  | checklist, Matrix                       |

[12]

|   |                    |
|---|--------------------|
| Q.3 Environmental clearance is required for   |                    |
| a. Asbestos mining area of $\geq$ <u>50</u> ha  | respective of area |
| b. Coal mining area of $\geq$ <u>50</u> ha  |                    |
| c. Thermal Power Plants $>$ <u>500</u> MW   |                    |
| d. Coke oven plants $\geq$ <u>250000</u> tons/annum   |                    |
| e. Building and Construction projects $\geq$ <u>20000</u> m <sup>2</sup>  |                    |
| f. Townships and Area Development projects, covering an area $\geq$ <u>50</u> ha and or built up area $\geq$ <u>150000</u> m <sup>2</sup> |                    |

[07]

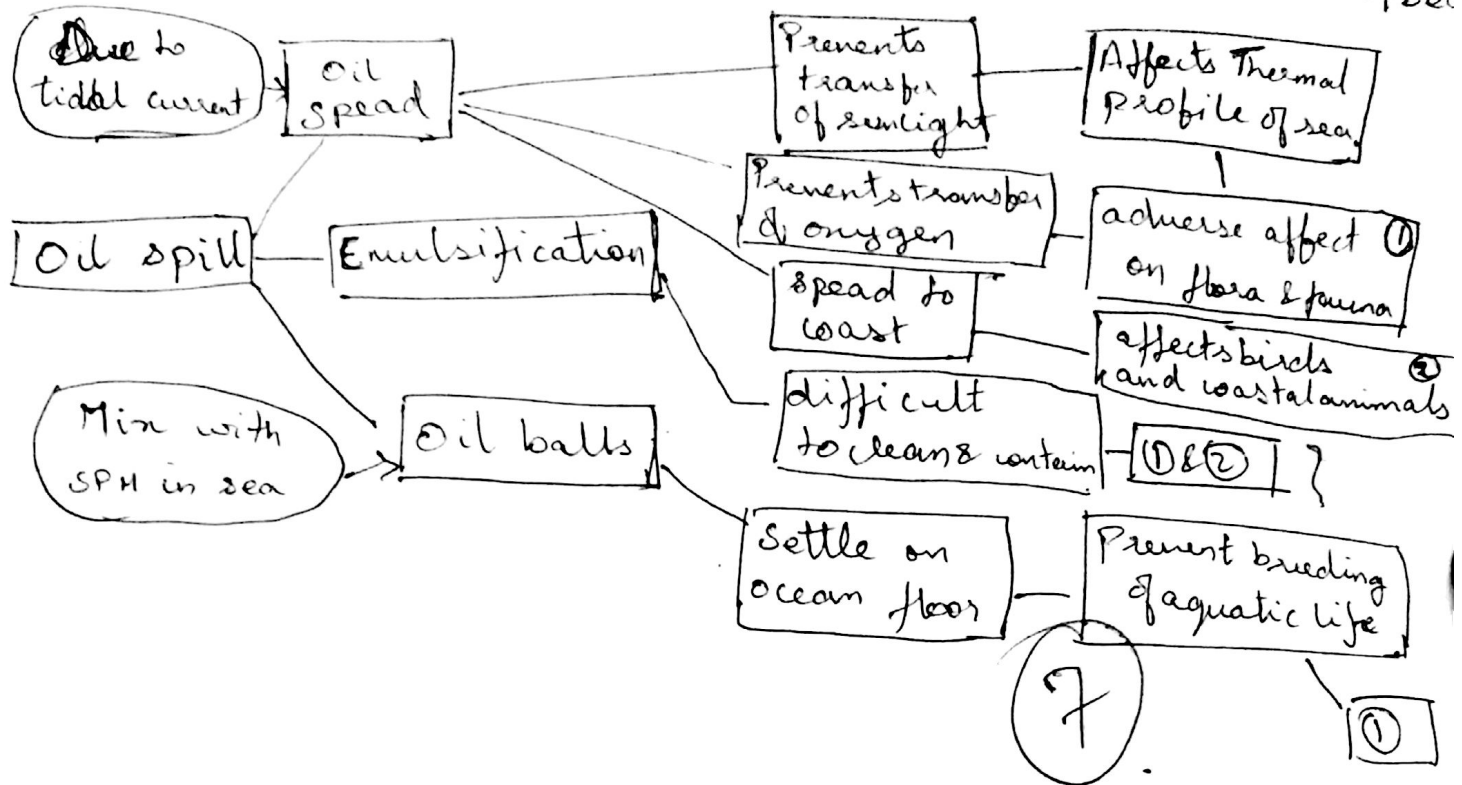
|  |  |
|--|--|
| Q.4 Fill up the checklist for a municipal solid-waste landfill project |  |
|--|--|

[10]

| Information/Checklist confirmation  | Yes/No    | Condition (if any)   |
|---|-----------|--|
| Permanent or temporary change in land use, land cover or topography                                       | Yes       |  |
| Clearance of existing land, vegetation and buildings?   | No        | if on barren land  |
| Construction works?   | Yes       | base of land fill to be made RC                                |
| Demolition works?   | No        | if barren land   |
| Temporary sites used for construction works for housing of construction workers?                          | Yes       |  |
| Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations | Yes       | after excavation, construction of separation walls (retaining) |
| Underground works including mining or tunneling?  | No        | only ground excavation   |
| Facilities for treatment or disposal of solid waste or liquid effluents?                                  | Yes       | treatment of waste water                                       |
| Changes in water bodies or the land surface affecting drainage or run-off?                                | Yes       | possible effect on land surface drainage pattern               |
| Influx of people to an area in either temporarily or permanently?   | Permanent | workers at site of landfill                                    |

Q.5 Draw a network illustrating the causes and environmental impacts due to an accidental oil spill near coastal area. State your assumptions about the site conditions. [13]

Ans: oil spill near coastal, with potential to spread to coast/beach



Q.6 There is a proposal to develop eco-tourism activities in a tribal area. Compare pre and post project environmental issues using a matrix. State your assumptions about the site conditions. [12]

Ans: ① Tribal area is in forested land, with good no. of water bodies  
② Forested land has healthy no. of flora & fauna species

| Phase/<br>Component | Pre project   |           | Post project  |  |
|---------------------|---|-----------|---|--|
|                     | Development/<br>Construction                        | Operation | Development/<br>Construction                                    | Operation                                |
| Land                | No change (NC)                                      | NC        | significant change with excavation/ topo. change etc.           | same as left after dev -ve, LT, IR       |
| Vegetation          | High vegetation cover with full grown trees         | cones etc | clearing of many trees in project area and approach -ve, LT, IR | new varieties could be intro +ve, LT, IR |
| Water               | sufficient for local use with healthy replenishment | etc       | No significant change +ve, LT, R                                | No significant change +ve, LT, R         |
| Air                 | No pollution  | etc       | dust, pollution etc -ve, ST, R                                  | no pollution due -ve, ST, R              |
| Employment          | No employment except agri culture & animal herding. |           | construction emp. +ve, ST, R                                    | workers at post +ve, LT, IR              |
| Art & Culture       | generations old followed                            |           | no significant change   | bring in for culture -ve, LT, IR         |

+ve, -ve ⇒ positive, negative effect.  
LT, ST ⇒ long term, short term effect  
IR, R ⇒ Irreversible, reversible effect.

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