

MEVE-001

POST GRADUATE DIPLOMA IN ENVIRONMENTAL AND
OCCUPATIONAL HEALTH (PGDEOHOL)
ENVIRONMENTAL IMPACT ANALYSIS FOR
ENVIRONMENTAL HEALTH

Time : 90 Minutes

Maximum Marks : 50

Note : i) All questions are compulsory.

ii) Each question carries 1 mark.

1. One of the fundamental values of effective EIA is:

- A) Sustainability
- B) Reporting
- C) Mitigation
- D) Scoping

2. The adverse effects of the proposed project were assessed at:

- A) Through out the operational phase when the effects are permanent
- B) At the beginning of the proposed project
- C) Before submission of the project proposal
- D) After completion of the project

3. The earth summit held at Rio-de-Janerio, Brazil was on:

- A) UN conference on Environment and Development
- B) UN conference on the Human Environment
- C) The control of Transboundary Movements of Hazardous Waste
- D) All of the above

4. Which is not a human factor of industrial location?

- A) Infrastructure
- B) Capital
- C) Labour
- D) Market

5. According to ISO 14040 and 14044 the LCA defined as:

- A) The whole life cycle of the product
- B) Compiling and evaluation of the inputs and outputs and potential environmental impacts of a product during a products life time
- C) It is an integrated path of EIA.
- D) It is a product analysis.

6. LCA does not include:

- A) Inventory of the product

- B) Impact analysis
- C) Quantitative analysis of the product
- D) Emergency prepared plan

7. Any developmental project needs both environmental clearance as well as:

- A) Forest (Conservation) Act, 1980
- B) Water Act, 1974
- C) Pollution Act, 1981
- D) Environmental Tribunal Act, 1995

8. The role of LCA is:

- A) Support decision making
- B) Understanding the industrial system
- C) Optimising industrial system
- D) All of the above

9. The objective of EPA 1986 is:

- A) To implement decisions of UN conference on Human Environment in 1972
- B) To take measures to protect and improve human environment
- C) Hazard prevention
- D) All of the above

10. The out come of the amendment of EIA notification on 7th July, 2004 is:

- A) EIA is mandatory for construction and industrial estates
- B) Exemption of industrial shed from requirement of environmental clearance
- C) Public hearing is not required
- D) All of the above

11. One of the following is not in Environmental Management Plan :

- A) Capacity Development
- B) Monitoring
- C) Mitigation
- D) TOR

12. If in the screening stage of EIA, the impact level of a developmental project is not discernible, then what step should be adopted?

- A) Scoping stage is to be followed
- B) A rapid EIA study is to be conducted
- C) Detail EIA study is to be conducted
- D) The project should be given Environmental Clearance

13. ISCST full form:

- A) Industrial Source Complex Short Term Version Three

- B) Industrial Sports Complex Short Test Version Three
- C) International Source Complex Short Term Variation Three
- D) All of the above

14. MoEFCC is using which one of the models in EIA:

- A) ISCST-2
- B) ISCST-3
- C) USEPA
- D) PTMAX

15. An overall ranking regarding modeling performance for PM10 is:

- A) CALPUFF > AERMOD > ISCST-3
- B) AERMOD > ISCST-3 > CALPUFF
- C) AERMOD > ISCST-2 > CALPUFF
- D) ISCST > AERMOD > ISCST-2

16. Base line Information of Socio-Economic Environment provide:

- A) Information to contribute to social and economic development
- B) Poverty levels
- C) Coping mechanism
- D) Accountability and responses

17. Which one of the following is primary assets in the sustainable livelihood's framework?

- A) Human capital
- B) Animal capital
- C) National capital
- D) All of the above

18. Match the following with A to B:

A

B

- | | |
|---|------------------------------|
| a. Demography | 1. Net cash flow |
| b. Economic Impact | 2. Cost-benefit analysis |
| c. Anticipated economic and social benefits | 3. Business output |
| d. Fiscal impact analysis | 4. Composition of population |

- A) a-4, b-3, c-2, d-1
- B) a-3, b-1, c-4, d-3
- C) a-4, b-3, c-1,d-2
- D) a-2, b-4, c-1,d-1

19. Social impacts are changes to:

- A) Public Participation
- B) Culture and Political systems

- C) Net cash flow
- D) Cost-benefit analysis

20. The operating step in turbojet engine to create high sound is because of:

- A) Piston Slap signal
- B) Original jet noise
- C) Aspiration of atmospheric air through the intake device
- D) Lack of silencer

21. Which of the following is known as monitoring of development project?

- a) Monitoring indicators that measure the impacts on the environment and communities as a result of the development project
 - b) Ensuring the fulfillment of all the commitments made in the approved EIA.
 - c) Keeping track of changes that may happen in the environment and communities because of the project and other local and/or global changes, such as changes in livelihoods due to economic crisis or migration, differences in water availability due to drought, etc.
 - d) Keeping track of the political context, to ensure that the project retains its license :
- A) a
 - B) d
 - C) a, b, c

D) c

22. The Government of India enacted the Environment (Protection) Act on:

- A) 10th April, 1997
- B) 23rd May, 1986
- C) 27th January, 2000
- D) 4th May, 1994

23. Which one of the following represents the result of the collection of all the relevant data concerning the status of the environment likely to be affected by the developments?

- A) Screening
- B) Scoping
- C) Baseline study
- D) Mitigation

24. Air Quality Modeling is a method used to manage:

- A) Urban air
- B) Rural air
- C) Urban water quality
- D) Rural water quality

25. ISCST-3 is used for:

- A) mechanical source air quality evaluation
- B) for stack configuration
- C) control methodology
- D) All of the above

26. ISCST-2, USEPA, ISCST-3 are:

- A) Computer languages
- B) Mathematical models for the dispersion of pollutants of air
- C) Mathematical models for the dispersion of pollutants of water
- D) All of the above

27. Which of the following is a secondary air pollutant?

- A) PANs
- B) Ozone
- C) Carbon monoxide
- D) Nitrogen dioxide

28. In hydroelectricity power:

- A) Kinetic energy transferred to potential energy
- B) Potential energy is transferred to kinetic energy

- C) Solar energy is transferred to wind energy
- D) Wind energy is transferred to solar energy

29. Which one of the following is the simplest EIA methodology?

- A) Questionnaire method
- B) Overlay method
- C) Network method
- D) Checklist method

30. In which one of the following methods environmental parameters are given without background information?

- A) Check list method
- B) Descriptive check list
- C) Simple check list
- D) All of the above

31. A decision tree is:

- A) Flow chart
- B) Structure in which internal node represents test on an attribute, each branch represents outcome of test and each leaf node represents class label
- C) Flow-Chart and structure in which internal node represents test on an attribute, each branch represents outcome of test and each leaf node represents class label

D) None of the above

32. EIA is required for a development of project only when:

- A) Low impacts are expected in the environment
- B) A small area is expected to be affected by the project
- C) Many people and environments are likely to be affected by the project adversely and have potentials for transboundary impact
- D) Not expected any cumulative impacts

33. Environmental Impact Statements provides:

- A) A record of the statistics, data and approximate calculation obtained from the various steps involved in Environmental Impact Assessment (EIA) procedure
- B) The deterioration of the ozone layer
- C) Extinction of endangered species
- D) Mass deforestation and desertification

34. The following maps are required in TOR of the projects:

- A) The location map of the proposed project
- B) Drainage map of the catchment up to the project site
- C) Geological and seismotectonic maps
- D) All of the above

35. Which of the following statements is true about hydroelectric power plant?
- A) Hydroelectric power plant has high running cost
 - B) Due to non-uniform flow of water frequency control in such plants is very difficult
 - C) Hydroelectric power plants are multipurpose
 - D) Water is used as fuel in hydroelectric power plant
36. The 'Silent Spring' book was published by:
- A) Rachel Carson
 - B) Edward Abbey
 - C) Vandana Shiva
 - D) Naomi Klein
37. The significance of the 'screening' step of EIA is:
- A) For the quality assessment of the project design
 - B) To facilitate informed decision making by providing clear, well-structured, factual analysis of the effects and consequences of proposed actions
 - C) For the determination of the requirement of EIA
 - D) Supportive document to the government
38. USEPA Model is used for:
- A) managing diverse climatic and landscape conditions

- B) managing water quality
- C) managing climate change
- D) All of the Above

39. Which of the following is correct about the Air Quality Index?

- A) It indicates the temperature of the air.
- B) It determines the intensity of sound and sound pollution.
- C) It estimates air pollution mainly sulphur content in the air.
- D) It predicts ozone levels in your area.

40. Which one of the following methods is used for monitoring and assessment of Particulate Matter (PM)?

- A) Differential Mobility Spectrometer
- B) NMR Spectrometer
- C) IR Spectrometer
- D) UV Spectrometer

41. Which one of the following statements is not correct?

- A) Stratospheric ozone damage life on earth from sunlight
- B) High ozone levels and other oxidants including peroxy-acetyl nitrate (PAN) clearly caused threat to human and ecosystem health.
- C) Ozone is a greenhouse gas.

D) NO_x and SO_x are major contributor for acid rain.

42. Which one of the following anthropogenic activities is the source of greenhouse gas emission?

- A) Meteorological factors
- B) Cultivation of rice and paddy
- C) Volcanoes
- D) Tsunami

43. is a process of systematic analysis of the assessment environmental effects of development policies, plans, programmes and other proposed strategic actions.

- A) SEA
- B) EIA
- C) Screening
- D) Social Impact Analysis

44. is a GIS analyses tool system for monitoring-used to control the aquatic environment close to the construction site of a major bridge and tunnel project.

- A) ERDAS IMAGINE
- B) SDSS

C) EAGLE

D) ESRI

45. The Total dissolved solids (TDS) can be reduced by one of the following methods:

A) Reverse osmosis

B) The Urban Airshed Mode

C) Ultra filtration

D) Sedimentation

46. Mitigation principles apply to all habitat conservation efforts are:

A) Mimic natural processes and promote native species

B) Minimizing environmental degradation

C) Ratio of relative humidity

D) facilitate decision making

47. Which one of the following criteria is for siting an industry?

A) No prime agricultural land shall be converted into industrial site.

B) The green belt between two adjoining large-scale industries shall be one kilometer.

C) Each industry is required to maintain three ambient air quality measuring stations within 120-degree angle between stations.

D) All of the above

48. Tripple Bottom line approach is:

- A) A management strategy that focusses on corporate social responsibility
- B) An accounting tool that assesses the impact on people, planet and profits
- C) A management strategy that states that focus is only on profits
- D) All of the above

49. EIS provides:

- A) A record of the statistics, data and approximate calculation obtained from the various steps involved in Environmental Impact Assessment (EIA) procedure:
- B) The deterioration of the ozone layer
- C) Extinction of endangered species
- D) Mass deforestation and desertification

50. Which one of the following generic steps of EIA decides whether or not a full EIA is to be carried out?

- A) Scoping
- B) Audit
- C) Mitigation
- D) Screening

