
UNIVERSITI SAINS MALAYSIA

2nd. Semester Examination
2001/2002 Academic Session

FEBRUARY / MARCH 2002

EAA 503/4 – Environmental Impact Assessment

Time : 3 hours

Direction to student:-

1. Ensure that this paper contains **FOUR (4)** printed pages include appendices.
2. This paper contains **SIX (6)** question. Answer **FIVE (5)** question only. Marks will be given to the **FIRST FIVE (5)** question put in order on the answer script and **NOT** the **BEST FIVE (5)**.
3. All questions carry the same mark.
4. All questions **MUST BE** answered in Bahasa Malaysia.
5. Write answered question number on the cover sheet of answer script.

1. (a) Discuss project phases and factors should be included while carrying out Environmental Impact Assessment for a municipal waste disposal facility **or** the development of a new university campus.
(10 marks)
- (b) Lists **FIVE (5)** activities that are subject to EIA approval, and give the threshold values for each.
(10 marks)
2. (a) Lee & Colley Evaluation Method one of the methods available to evaluate the quality of EIA reports. Briefly, indicate the important aspects that need to be emphasised while evaluating reports.
(10 marks)
- (b) Environmental Audit is an important activity in EIA. Discuss the phases of Environmental Auditing.
(10 marks)
3. (a) Explain briefly on the following items with respect to EIA:
 - (i) Environment
 - (ii) Environmental inventory
 - (iii) Environmental impact assessment
(6 marks)
- (b) Map in Appendix 1 shows a proposed dam to be built around 4 areas of Orang Asli settlements. Explain briefly that how would you carry out the impact assessment of the project on Orang Asli.
(4 marks)
- (c) In a Symposium on the Gas Industry and Environment in Minsk, Russia in 1977, British Gas indicated that one of the important considerations for environmental impact assessment is non-visual consideration. That consideration includes geographical and technical considerations. Discuss on both aspects of consideration.
(10 marks)
4. (a) The following items are some of the characteristics for components that are stated in the Environmental Impact Assessment Guidelines published by the Department of Environment, Malaysia. Explain briefly on the characteristics of the said components:
 - (i) shoreline
 - (ii) water quality
 - (iii) water balance
(6 marks)

4. (b) Explain **SIX (6)** factors that have to be taken into account when assessing the significance of environmental impact arising from a project activity. (6 marks)
- (c) Discuss briefly on the following items:
- (i) The objectives of Preliminary Assessment for the prescribed activities.
 - (ii) The objectives of Review process for the prescribed activities. (8 marks)
5. (a) Explain the meaning of the term EMP. Give the organisation chart in EMP. (10 marks)
- (b) An industrial estate in Lembah Kelang has just gained its EIA approval. List out the main items required for the project in its EMP. (10 marks)
6. (a) Environmental Contingency Plan must be included in EMP.
- Briefly explain:
- (a) its meaning
 - (b) its objectives
 - (c) the elements required in its Emergency Plan (15 marks)
- (b) Explain briefly on environmental auditing. (5 marks)

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