



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESION 2009/2010**

**SUBJECT : ENVIRONMENTAL
MANAGEMENT**

SUBJECT CODE : BFF 4013

COURSE : 4 BFA

DURATION : 3 HOURS

DATE OF EXAMINATION : OCTOBER 2009

**INSTRUCTION : ANSWER FIVE (5)
QUESTIONS ONLY.**

THIS PAPER CONTAINED SEVEN (7) PAGES INCLUDE THIS PAGE

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- Q1**
- (a) List down **five (5)** acts, rules or other associated legislations as subscribed in the Environmental Quality Act, 1974. (5 marks)
 - (b) Discuss an approach taken to avoid air pollution with reference to Environmental Quality Act, 1978 [P.U (A) 280/78] stated on clean air. (7 marks)
 - (c) Public awareness on the importance of the high quality environment play an important role to ensure compliance to the Environmental Quality Act, 1974. Discuss and give the examples. (8 marks)
- Q2**
- (a) Explain the steps in the planning and management of water resources. (5 marks)
 - (b) Explain the importance of wetlands and various considerations in the management of wetlands. (7 marks)
 - (c) Discuss the importance of biodiversity and the threats to biodiversity. (8 marks)
- Q3**
- (a) Explain the advantages of waste minimization technique to an organisation. (5 marks)
 - (b) Compare the past industrial practices and current pollution prevention practices in terms of technology use and safety. (7 marks)
 - (c) Discuss the consumption of a cleaner production in waste management. (8 marks)

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- Q4** (a) Describe the benefits of the Environmental Management System (EMS) to any organization. (5 marks)
- (c) Discuss the importance of management review that is normally conducted after an internal audit process. (7 marks)
- (d) "Plan, Do, Check, Act" are important elements in the Environmental Management System (EMS) model. Discuss and give appropriate examples. (8 marks)
- Q5** (a) Define an environmental audit. (5 marks)
- (b) With the aid of a flow chart describe a complete flow of environmental audit processes. (7 marks)
- (c) Discuss the benefit of an environmental audit to any organization. (8 marks)
- Q6** (a) List **two (2)** gaseous and **two (2)** heavy metals air pollutants typically found in highway environments. (4 marks)
- (b) Briefly discuss how water quality and ecosystem may be affected by road construction (8 marks)
- (c) Explain briefly the effect of the followings on the environment as a result of transportation:
(i) Particulates matter and health
(ii) Vehicle exhaust emissions (8 marks)

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- Q7**
- (a) List **eight (8)** prescribe activities which are subjected to Environmental Impact Assessment (EIA). (4 marks)
 - (b) Describe briefly the following EIA concepts:
 - (i) Selecting mitigation and abatement measures
 - (ii) Public participation(8 marks)
 - (c) Construct a simple EIA matrix of the activities involved during construction for proposed highways which crosses a mangrove area and the impacts that it would impose on the environment. (8 marks)

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- S1**
- (a) Senaraikan lima (5) akta, peraturan atau lain-lain perundangan yang berkaitan yang tersenarai di dalam Akta Kualiti Alam Sekeliling, 1974. (5 markah)
 - (b) Bincangkan pendekatan untuk mencegah pencemaran udara dengan merujuk kepada Peraturan-Peraturan Kualiti Alam Sekeliling 1978 [P.U (A) 280/78]. (7 markah)
 - (c) Kesedaran masyarakat terhadap kepentingan persekitaran berkualiti merupakan faktor penting kepada pematuhan Akta Kualiti Alam Sekeliling, 1974. Bincangkan dengan memberi contoh yang sesuai. (8 markah)
- S2**
- (a) Terangkan langkah-langkah perancangan dan pengurusan sumber air. (5 markah)
 - (b) Huraikan kepentingan tanah bencah dan perkara yang perlu diambil perhatian dalam pengurusan tanah bencah. (7 markah)
 - (c) Bincangkan kepentingan kepelbagaian bio dan ancaman terhadapnya. (8 markah)
- S3**
- (a) Huraikan kebaikan peminimaan sisa kepada sesebuah organisasi. (5 markah)
 - (b) Bandingkan amalan industri dahulu dan kini terhadap amalan pencegahan pencemaran dari segi penggunaan teknologi dan keselamatan. (7 markah)
 - (c) Bincangkan penggunaan penghasilan bersih dalam pengurusan sisa. (8 markah)

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- S4**
- (a) Huraikan kebaikan Sistem Pengurusan Persekitaran kepada sesebuah organisasi. (5 markah)
 - (b) Bincangkan faedah penambahbaikan pengurusan yang dijalankan selepas proses audit dalaman. (7 markah)
 - (c) “Rancang, Buat, Semak dan Bertindak” merupakan elemen penting dalam Sistem Pengurusan Persekitaran. Bincang dan beri contoh yang sesuai. (8 markah)
- S5**
- (a) Terangkan definisi audit persekitaran. (5 markah)
 - (b) Dengan bantuan carta alir huraikan aliran lengkap proses audit persekitaran. (7 markah)
 - (c) Bincangkan kebaikan audit persekitaran terhadap sesebuah organisasi. (8 markah)
- S6**
- (a) Terangkan **dua (2)** bahan pencemar udara berbentuk gas dan dua (2) pencemar udara berbentuk logam berat yang sering dijumpai di persekitaran lebuhraya. (4 markah)
 - (b) Bincangkan dengan ringkas kesan pembinaan jalan raya terhadap kualiti air dan ekosistem. (8 markah)
 - (c) Terangkan dengan ringkas kesan pengangkutan berikut terhadap alam sekitar:
 - (i) Partikulat dan kesihatan
 - (ii) Pengeluaran asap kenderaan(8 markah)

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- S7**
- (a) **Senarai lapan (8) aktiviti yang ditetapkan di bawah Penilaian Kesan Alam Sekeliling.**
(4 markah)

 - (b) **Bincangkan dengan ringkas konsep Penilaian Kesan Alam Sekeliling bagi perkara berikut;**
 - (i) **pemilihan langkah pengurangan dan penebatan**
 - (ii) **Penglibatan awam**(8 markah)

 - (c) **Bina matriks ringkas EIA bagi aktiviti yang terlibat dan nyatakan impak yang mungkin berlaku bagi projek cadangan pembinaan sebuah lebuh raya baru yang merentasi kawasan hutan paya bakau.**
(8 markah)