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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2012/2013**

COURSE NAME : ENVIRONMENTAL TECHNOLOGY
COURSE CODE : BPF 4203 / BPF 42003
PROGRAMME : 4 BPC
EXAMINATION DATE : DECEMBER 2012/JANUARY 2013
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES

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- Q1** Waste management includes physical and thermal methods.
- (a) Explain **TWO (2)** physical method of waste management. (10 marks)
- (b) Explain **TWO (2)** thermal method of waste management. (10 marks)
- Q2** Landfill is one of part environmental problem. From this statement:
- (a) Discuss **FIVE (5)** problem at landfill. (10 marks)
- (b) Analyse **TWO (2)** techniques of pollution control:
- (i) Air pollution control
 - (ii) Water pollution control
 - (iii) Noise pollution control
 - (iv) Odour pollution control
- (10 marks)
- Q3** (a) Biotechnology impacts toward human, flora and fauna. Explain the statement. (10 marks)
- (b) Knowledge in environmental technology can provide environmental awareness to community. Explain the statement. (10 marks)
- Q4** (a) Describe **FIVE (5)** impacts of environmental pollution to environment. (10 marks)
- (b) Compare with example **TWO (2)** method of waste minimization. (10 marks)

- Q5** Environmental pollution is global issues.
Choose two issues, and explain this statement:
- (i) Pollution source
 - (ii) Factors
 - (iii) Management

(20 marks)

-END OF QUESTION-

S1 Pengurusan sisa meliputi kaedah fizikal dan termal.

(a) Huraikan **DUA (2)** daripada lima kaedah pengurusan sisa secara fizikal.
(10 markah)

(b) Huraikan **DUA (2)** daripada tiga kaedah pengurusan sisa secara termal.
(10 markah)

S2 Tapak pelupusan sampah merupakan sebahagian daripada masalah persekitaran. Berdasarkan pernyataan ini:

(a) Bincangkan **LIMA (5)** masalah di tapak pelupusan sampah.
(10 markah)

(b) Taksirkan **DUA (2)** kaedah teknik kawalan pencemaran seperti berikut:

(i) Kawalan pencemaran udara

(ii) Kawalan pencemaran air

(iii) Kawalan pencemaran bunyi

(iv) Kawalan pencemaran bau

(10 markah)

S3 (a) Bioteknologi memberi kesan kepada manusia, flora dan fauna.

Terangkan pernyataan ini.

(10 markah)

(b) Teknologi alam sekitar sebagai alat untuk memberi kesedaran menjaga alam sekitar kepada masyarakat.

Bincangkan pernyataan ini.

(10 markah)

S4 (a) Jelaskan **LIMA (5)** kesan pencemaran alam sekitar kepada persekitaran.

(10 markah)

(b) Bezakan beserta contoh **DUA(2)** kaedah meminimumkan sisa.

(10 markah)

- S5** Pencemaran alam sekitar merupakan isu sejagat.
Pilih dua isu dan jelaskan pernyataan ini dari aspek:
- (i) Punca pencemaran
 - (ii) Faktor-faktor
 - (iii) Pengurusan

(20 markah)

-SOALAN TAMAT-