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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2018/2019**

COURSE NAME : ENVIRONMENTAL TECHNOLOGY
COURSE CODE : BPF 42003
PROGRAMME CODE : BPC
EXAMINATION DATE : DECEMBER 2018 / JANUARY 2019
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

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- Q1** Some industries install scrubbers in their smokestacks to reduce the amount of sulphur dioxide released into the atmosphere. Factories that use fuels with high sulphur content should install flue gas desulfurization systems. The installation of denitrification and desulfurization facilities can significantly reduce the nitrogen oxide and sulphur oxide emissions. Strengthening existing regulations and emissions standards can help to enforce the installation of these facilities.

(Source: James, 2013)

Discuss **FIVE (5)** strategies use in Malaysia to control air pollution.

(25 marks)

- Q2** Hazardous waste is one of industrial waste and it's characteristic include flammable, erosive, reactive and toxicidable.

Discuss with examples hazardous waste.

(25 marks)

- Q3** Some countries have set very stringent limits to emissions. Emission standards are normally set based on either of the following:

- i. To achieve a certain reduction of emissions, assuming that the technology to achieve the required efficiency will be developed; and
- ii. To choose a suitable available technology and set emissions standards at a level that technology can achieve.

Discuss with examples how the Emission Standard can improve the environment.

(25 marks)

- Q4** Biotechnology is a technique or process that involves the use of science-related living things to solve problems or productive benefits for humans.

Relate **FIVE (5)** benefits of biotechnology to human health.

(25 marks)

- END OF QUESTIONS -