



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2010/2011

COURSE NAME : PROFESSIONAL ETHICS AND
MANAGEMENT

COURSE CODE : BDA 4042

PROGRAMME : BDD

EXAMINATION DATE : NOVEMBER / DECEMBER 2010

DURATION : 2 HOURS 30 MINUTES

INSTRUCTION : ANSWER ALL **FIVE(5)** QUESTIONS

THIS PAPER CONTAINS FOUR (4) PAGES

- S1** (a) The Implementation and Coordination Unit of a government agency is responsible for the appointment of consultants involved in detailed design, construction supervision and project management;

Explain briefly:

- (i) 5 main criteria for the selection of a consultant prior the appointment.
- (ii) The procedures involved in the appointment of consultants through the a submissions of technical proposal

(10 marks)

- (b) A technical and financial proposal is normally prepared in response of any invitation letter from a client prior the appointment of a consulting firm in carrying consultancy services works to a proposed project

Explain briefly:

- (i) The general works to be carried out by a consultant for building services
- (ii) The 3 stages of the services to be carried out by consulting engineer

(10 marks)

- S2** (a) Upgrading registration from Graduate Engineer to a Professional Engineer Status is the ultimate goal of Graduate Engineers registered with Board of Engineer Malaysia (BEM).

Describe briefly:

- (i) The route to be a professional engineer.
- (ii) The practical experience (a period of not less than 4 years) that a registered Graduate Engineer is required in a manner satisfactory to the BEM

(15 marks)

- (b) Explain briefly the Continuous Professional Development (CPD) policy and programme as being implemented in the BEM.

(5 marks)

- S3** (a) Ethics is generally understood as the discipline or field of study dealing with moral duty or obligations. As members of engineering profession, engineers are expected to exhibit the highest standards of honesty and integrity

Describe briefly:

- (i) 4 fundamental code of ethics and their rules of practice in the fulfillment of their professional duties
- (ii) The professional obligations in relation to each of the above fundamental code of ethics

(15 marks)

- (b) You work for a construction company that is bidding for a lucrative contract. You are responsible for submitting the bid. Your supervisor tells you to prepare a bid below the actual cost of the project. When you ask how the company plans to recover its costs, your supervisor tells you to introduce mistakes into the constructions drawings. In this way, the company can recover costs by means of costly change orders. When you express discomfort with this, your supervisor dismisses your concerns. "Everybody does it. If we don't, we will lose the bid and we need this contract." What should you do?

(5 marks)

- S4** (a) A standard model for the System Engineering Management Plan (SEMP) that establish the overall plan for the System Engineering Plan for the system or sub-systems during total system life cycle.

Describe briefly:

- (i) A Model Text for such SEMP and the primary objectives of such document
- (ii) The Scope of the SEMP Document

(10 marks)

- (b) An Integrated System Management (ISM) is normally comprised of system concepts, management system design, information systems and personnel management.

Explain briefly:

- (i) The concept of System Thinking for such ISM
- (ii) The process of System Engineering for the ISM.

(10 marks)

- S5** (a) Project Management skills are increasingly becoming essential for all practicing engineers. Well-managed project product profitable product and may lead to successful companies.

Describe briefly:

- (i) The main functions in Project Management
- (ii) A design or built project plan and schedule (with the help of suitable diagrams)

(10 marks)

- (b) Technology Transfer is normally refers to the movement of technological and technology-related organisational know-how among partners (individuals, institutions, and enterprises) in order to enhance at least one partner's knowledge and expertise and strengthen each partner's competitive position

Explain briefly:

- (i) The general activities occurs within the technology transfer process (with the help of suitable diagram/s)
- (ii) 4 types of the university-industry technology transfer process

(10 marks)