



**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2016/2017**

COURSE NAME : CONSTRUCTION SITE  
TECHNOLOGY  
COURSE CODE : BNC31403  
PROGRAMME : BNC  
EXAMINATION DATE : DECEMBER 2016/  
JANUARY 2017  
DURATION : 2 HOURS 30 MINUTES  
INSTRUCTION : ANSWER **FOUR (4)** QUESTIONS  
ONLY

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THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

**Q1** There is no single best approach in organizing project management throughout a project's life cycle. All organizational approaches have advantages and disadvantages, depending on the knowledge of the owner in construction management.

- (a) Define the project. (3 marks)
- (b) Explain in detail **FOUR (4)** major type of construction projects (10 marks)
- (c) Differentiate preconstruction phase and construction phase (12 marks)

**Q2** (a) A project is an endeavor that is undertaken to produce the results that are expected from the requesting party. To ensure the success of a project implementation team member should be set up to achieve these requirements. Describe briefly the important of teamwork in a certain project. (5 marks)

(b) As a project progresses through design into construction, the work of the owner's, designers, and contractors teams must merge into a collective effort. Although each of these teams have their own objectives, the diverse expertise that each possesses must converge into an overlapping environment. Compare the responsibility between construction and management team. (8 marks)

(c) Your company has been awarded a project to build up the new six-storey building for Faculties of Engineering Technology. As a project manager, you are having formed your project team to ensure the project can achieve its objectives and mission. Suggest how to manage your project team as project manager. (12 marks)

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- Q3** Documentation is important to ensure coordination of care between providers as a guidance and reference for overall project from start to end.
- (a) List **THREE (3)** important reasons of document and maintain proper records.  
(3 marks)
  - (b) Files and records of documentation and information are important in the management of the construction and it was helpful in facilitating of a project. Carrying out the procedure should be done in files and records of documentation and information in a project.  
(7 marks)
  - (c) In the project record management process, there are several stages of activities involved in order to complete and accomplish the objectives for each stage. Prepare the stage of the construction progress records as technologies engineer that involve from the start of the project until operating.  
(9 marks)
  - (d) List the purpose of Architectural and Engineering Instructions (AEI).  
(6 marks)
- Q4** Handling the project in early stage of development is presented the ability to influence the overall quality, cost, and schedule of a project best achieved.
- (a) Define project work plan.  
(5 marks)
  - (b) With the aid of schematic diagram, illustrate the link between Work Breakdown Structure (WBS) and Organizational Breakdown Structure (OBS) of project.  
(10 marks)
  - (c) As a project manager, propose the components of project work plan.  
(10 marks)

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- Q5** (a) What is material management? (3 marks)
- (b) Material management requires an integrated and very coordinated approach. Prepare the material planning in project planning and control. (12 marks)
- (c) There is **FIVE (5)** team member involve in pre-construction material management. List and differentiate all team member in aspects of they role in material management. (10 marks)

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**- END OF QUESTIONS -**