

SULIT



UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**PEPERIKSAAN AKHIR
SEMESTER II
SESI 2015/2016**

NAMA KURSUS : PENYELIAAN TAPAK
KOD KURSUS : DAB 30702
KOD PROGRAM : DAB
TARIKH PEPERIKSAAN : JUN / JULAI 2016
JANGKA MASA : 2 JAM 30 MINIT
ARAHAN : JAWAB SOALAN DALAM
BAHAGIAN A DAN **TIGA (3)**
SOALAN DALAM BAHAGIAN
B

KERTAS SOALAN INI MENGANDUNGI **ENAM (6)** MUKA SURAT

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SULIT**BAHASA MELAYU****BAHAGIAN A**

S1. Jadual S1 menunjukkan aktiviti-aktiviti satu projek bangunan kecil. Berdasarkan jadual tersebut, jawab soalan-soalan berikut:

- (a) Lukis Diagram Gambarajah Dulu (precedence diagram) (5 markah)
- (b) Kira masa Mula Awal (ES), Mula Akhir (LS), Tamat Awal (EF), Tamat Akhir (LF) dan Jumlah Apungan (TF) bagi setiap aktiviti. (15 markah)
- (c) Sekiranya aktiviti E lewat selama **Enam (6)** hari, apakah yang akan berlaku kepada aktiviti F? Huraikan jawapan anda beserta justifikasi. (3 markah)
- (d) Tunjukkan laluan kritikal pada rangkaian tersebut. (2 markah)

BAHAGIAN B

- S2.** (a) Jelaskan **Dua (2)** kepentingan penyeliaan tapak kepada tapak bina. (4 markah)
- (b) Tentukan **Tiga (3)** jenis kerja awalan di tapak bina dan jelaskan keperluan kerja tersebut. (12 markah)
- (c) **Rajah S2** merupakan iklan jawatan kosong bagi jawatan penyelia tapak. Hubungkan dan jelaskan **Tiga (3)** kriteria yang terkandung dalam iklan tersebut dengan tugas seorang penyelia tapak baik. (9 markah)
- S3.** (a) Klien merupakan pihak yang memulakan atau membiaya bagi sesuatu projek.
- (i) Terangkan **Dua (2)** jenis klien yang terlibat dalam pembinaan. (6 markah)
- (ii) Senaraikan **Tiga (3)** harapan klien dalam membangunkan projek. (3 markah)

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- (b) Sebuah jambatan sepanjang 500m sedang dibina di Daerah Batu Pahat bagi menggantikan jambatan sedia ada. Kenalpasti dan **Tiga (3)** disiplin perunding yang terlibat dalam projek tersebut dan terangkan **Dua (2)** tanggungjawab setiap disiplin tersebut.
- (12 markah)
- (c) Huraikan **Dua (2)** peranan pihak berkuasa tempatan dalam pembinaan sesebuah projek.
- (4 markah)
- S4.** Terdapat pelbagai kaedah perolehan yang boleh diaplikasikan dalam projek pembinaan di Malaysia.
- (a) Jelaskan maksud perolehan projek
- (3 markah)
- (b) Pilih **Dua (2)** kaedah perolehan dan terangkan ciri-cirinya.
- (12 markah)
- (c) Dengan bantuan lakaran, tunjukkan struktur organisasi kaedah perolehan yang telah dinyatakan dalam **S4(b)**
- (10 markah)
- S5.** (a) Selain daripada dokumen kontrak dan lukisan pembinaan, diari tapak juga merupakan dokumen penting sepanjang tempoh binaan.
- (i) Jelaskan **Dua (2)** kegunaan diari tapak.
- (10 markah)
- (ii) Senaraikan **Lima (5)** kandungan diari tapak.
- (5 markah)
- (b) Mesyuarat merupakan satu platform komunikasi pihak-pihak yang terlibat dalam pembinaan. Tentukan **Lima (5)** perkara yang dibincangkan dalam mesyuarat berikut:
- (i) Mesyuarat tapak pertama
- (5 markah)
- (ii) Mesyuarat tapak bina
- (5 markah)

-SOALAN TAMAT-

CONFIDENTIAL**ENGLISH****SECTION A**

Q1. *Table Q1 shows the activities of a small building project. Based on the table, answer the following questions:*

- (a) *Draw Precedence Diagram.* (5 marks)
- (b) *Calculate Earliest Start Time (ES), Late Start Time(LS), Earliest Finish Time (EF), Late Finish Time (LF) and Total Float Time (TF) each activity.* (15 marks)
- (c) *If activity E are delayed for Six (6) days, what will happen to the activities of F? Explain your answer with justification.* (3 marks)
- (d) *Show the critical path in the network.* (2 marks)

SECTION B

- Q2.** (a) *Explain Two (2) importance of site supervision to a construction site* (4 marks)
- (b) *Identify Three (3) types of preliminary work on construction sites and explain the requirements of each work.* (12 marks)
- (c) *Figure Q2 is an advertising vacancy for the post of site supervisor. Relate and explain Three (3) criteria contained within the ad with the duties of a good site supervisor.* (9 marks)
- Q3.** (a) *Clients can be expressed as the initiator or the financiers of the project.*
- (i) *Explain Two (2) types of clients involved in the construction.* (6 marks)
- (ii) *List Three (3) clients' expectations in developing the project.* (3 marks)

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- (b) *A 500m long bridge is being built in Batu Pahat to replace the existing bridge. Identify **Three (3)** discipline consultants involved in the project and describe **Two (2)** responsibilities of each discipline.* (12 marks)
- (c) *Describe **Two (2)** roles of local authorities in a construction.* (4 marks)
- Q4.** *There are various methods that can be applied in the procurement of construction projects in Malaysia.*
- (a) *Explain the purpose of procurement projects.* (3 marks)
- (b) *Select **Two (2)** methods of procurement and explain its characteristics.* (12 marks)
- (c) *With the aid of sketches, show the organizational structure of the procurement method specified in **Q4(b)*** (10 marks)
- Q5.** (a) *Besides contract document and construction drawings, site diary is also an important document for the duration of construction.*
- (i) *Explain **Two (2)** purposes of site diary.* (10 marks)
- (ii) *List **Five (5)** contents of site diary.* (5 marks)
- (b) *Meetings are a communication platform to the parties involved in the construction. List **Five (5)** matters discussed in the following meeting:*
- (i) *Kick off meeting.* (5 marks)
- (ii) *Site meeting.* (5 marks)

- END OF QUESTION -

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NAMA KURSUS : PENYELIAAN TAPAKPROGRAM : 2 DAB
KOD KURSUS : DAB30702**JADUAL S1
TABLE Q1**

Task no.	Task Name	Predecessor	Duration (days)
1	A	-	2
2	B	A	6
3	C	B	6
4	D	B	4
5	E	A	3
6	F	D, E(+3)	3
7	G	C(+2),F	2

**SENIOR SUPERVISOR/SUPERVISOR
(SITE/QAQC/M&E/ARCHITECTURE)****Responsibilities:**

- Supervising and controlling the direct labors and subcontractor's work for completion of the respective facilities.
- Undertaking inspection of works at appropriate stages to ensure conformance to specification.
- Identifying and reporting any incidence of non-conformance to either specification or system.
- Controlling any further work until the deficiency or problem has been satisfactorily resolved

Requirements:

- Candidate must possess minimum qualification of Diploma in Civil Engineering, M&E Engineering, Architecture or equivalent.
- Minimum 5 - 10 years of working experience in road / infrastructure / building works.
- Able to work independently, possess good interpersonal, communication skills and initiative with good analytical mind and result oriented.
- Good communication skills in English written and verbal.
- Experience in supervising multimillion projects is an added advantage.

**RAJAH S2
FIGURE Q2****CONFIDENTIAL**