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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

TERBUKA

COURSE NAME : CONSTRUCTION PROJECT
MANAGEMENT
COURSE CODE : BPE 44402
PROGRAMME CODE : BPD
EXAMINATION DATE : DECEMBER 2016/JANUARY 2017
DURATION : 2 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1 Discuss the following terms in respect to construction project management.

- (a) Variation Order (V.O) (5 marks)
- (b) Extension of Time (E.O.T) (5 marks)
- (c) Liquidated Ascertained Damages (LAD) (5 marks)
- (d) Work Breakdown Structure (WBS) (5 marks)
- (e) Critical Path Method (CPM) (5 marks)

Q2 (a) Explain briefly **FIVE (5)** benefits of a good Work Breakdown Structure (WBS) for any construction project. (10 Marks)

(a) Describe **FIVE (5)** possible approaches on how project duration can be shortened. (15 Marks)

Q3 Project scheduling includes management of resources for work efficiency and cost minimization during a project life-cycle.

- (a) For the following schedule as shown in **Table Q3(a)**, perform the following;
 - (i) Draw a node network based on your CPM calculation. (8 marks)
 - (ii) Mark the critical path. (2 marks)
 - (iii) Complete the table. (2 marks)



Table Q3(a): A Project Schedule

Activity	IPA	Duration	Lag	ES	EF	LS	LF	TF	FF
A	-	4							
B	-	9							
C	A	6							
D	A	4							
	B		2						
E	B	4							
F	B,C	2							
G	D	6							
	E		3						
H	F,G	3							

(b) Define the following terms with respect to project scheduling.

- (i) An activity
- (ii) A network
- (iii) Total Float
- (iv) Free Float

(4 marks)

(c) Explain **THREE (3)** categories of resources used in any construction project.

(9 marks)



Q4 *The Conditions of Contract* under *P.W.D. Form 203A (Rev.10/83)* outlines general duty of a Superintending Officer (S.O) in any construction projects.

Explain,

- (a) **FIVE (5)** duties of S.O. (10 marks)
- (b) An S.O. Instruction with an appropriate example. (5 marks)
- (c) Contractor's responsibility upon issuance of an S.O. Instruction. (5 marks)
- (d) S.O. representative and his scope of works (5 marks)

- END OF QUESTIONS -

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