

13

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

TERM: MID SEMESTER EXAMINATION
COURSE NO.: HUM 4651
COURSE TITLE: Project Planning and Management

SUMMER SEMESTER: 2021-2022
TIME: 1.5 Hours
FULL MARKS: 75

There are 4 (Four) questions. Answer 3 (Three) questions, where Question No. 3 is compulsory. Symbols convey their usual meanings. The figures in the right margin indicate full marks and corresponding CO and PO in the brackets.

- 1(a) Why do we plan? Describe the benefits of planning. (CO1) (5)
(PO1)
- (b) Discuss the differences between Quality Control and Quality Assurance? (CO1) (5)
(PO1)
- (c) Why construction management is a challenging and complex project? Justify your answer. (CO2) (10)
(PO2)
- 2(a) What do you understand by Project? Describe its characteristics. (CO1) (5)
(PO1)
- (b) State briefly the phases of project life cycle. Explain the most important phase of project life cycle. (CO1) (5)
(PO1)
- (c) Describe WBS and justify its importance in project planning and control. (CO2) (10)
(PO2)
- 3(a) Differentiate between Total and Free Float of an activity and their purpose in network diagram. (CO1) (5)
(PO1)
- (b) Describe briefly the drawbacks of Gantt Chart. (CO1) (5)
(PO1)
- (c) Explain $C = f(S, T, P)$ (CO2) (5)
(PO2)
- (d) Draw the network diagram, Determine the Critical Path, Total Duration, Total and Free Float of each activity from the following information: (CO3) (20)
(PO11)

Activity	Predecessor	Duration (Days)
A	-	3
B	A	4
C	A	2
D	B	5
E	C	1
F	C	2
G	D,E	4
H	F,G	3

- 4(a) Why do we need written contract? Write down the documents that form contract. (CO1) (5)
(PO1)
- (b) Briefly describe TQM and its key features compared to Traditional Quality Control. (CO1) (5)
(PO1)
- (c) Explain $Q = P/E$ and how to achieve quality? (CO2) (10)
(PO2)