

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

MID SEMESTER EXAMINATION

SUMMER SEMESTER: 2022-2023

COURSE NO.: HUM 4651

TIME: 1.5 Hours

COURSE TITLE: Project Planning and Management

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 is it essential to define the project life cycle and divide it into various phases? (CO1) (5)
(PO1)
- (b) Discuss the important activities that are carried out during the planning phase? Why they are critical? (CO1) (5)
(PO1)
- (c) Explain the importance of WBS in project planning and quality assurance. (CO2) (10)
(PO2)
- 2(a) Describe the key points that need to pay attention for considering the basic resources of a project. (CO1) (5)
(PO1)
- (b) State the five key stages of planning process. (CO1) (5)
(PO1)
- (c) What are the objectives of Project Management? Explain their relationships. (CO2) (10)
(PO2)
- 3(a) Briefly state the benefits of network diagram. (CO1) (5)
(PO1)
- (b) 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	-	10
b	-	8
c	a	2
d	a	8
e	b, c	5
f	d	9
g	d, e	5

- (c) Draw the Gantt Chart/ Work Program of the above activities. (CO3) (10)
(PO11)
- 4(a) Why do we need written contract? Write down the documents that form contract. (CO1) (5)
(PO1)
- (b) State the major information that need to be considered for IFT. (CO1) (5)
(PO1)
- (c) Describe Pareto's Law. Explain how this law can be useful in Quality Management? (CO2) (10)
(PO2)