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ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF BUSINESS AND TECHNOLOGY MANAGEMENT

Mid-Semester Examination
Course No. : BTM 4801
Course Title : Project Management

Summer Semester, A. Y. 2022-2023
Time : 1.5 hours
Full Marks : 75

Answer all 3 (Three) questions. All questions carry equal marks. Marks of each question and corresponding CO and PO are written in the right margin with brackets.

1. Company XYZ embarked on a software development project with a goal to enhance its customer relationship management system. In the initial stages, the project team faced challenges due to an inappropriate project life cycle. The team shifted from a traditional approach to an active methodology, allowing for repetitive development and better adaptation to changing requirements. This change significantly improved collaboration, increased flexibility, and accelerated project delivery. As a result, the final product not only met customer expectations but also surpassed initial project goals. 25 (CO1) (PO10)

Questions

- i. What lessons can be learned from this case study regarding the importance of selecting an appropriate project life cycle for different projects?
- ii. How did the shift in project life cycle contribute to meeting and exceeding customer expectations?

2. a) Company CBA is initiating a new project to launch an e-commerce platform. The project manager decides to create a Work Breakdown Structure (WBS) to systematically break down tasks. The WBS helps in identifying key project components, such as website development, payment integration, and marketing. Each of these components is further divided into smaller, manageable tasks. 15 (CO2) (PO10)

Questions

- i. How does the WBS contribute to effective delegation and task management?
- ii. Illustrate some specific tasks within the WBS that are critical to the success of the e-commerce platform launch?

b) How would you communicate schedule changes to stakeholders, and what strategies could be implemented to minimize the impact on the overall project duration? 10 (CO3) (PO10)

Activity	A	B	C	D	E	F	G
Immediate Predecessor	--	--	A	A, B	D	C,E	E
Expected time (in week)	7	9	12	8	8	5	5

Instructions

- Construct a project network.
- Perform forward and backward pass.
- Determine project completion time.
- Calculate slack values.
- State critical path.