MOSHOOD ABIOLA POLYTECHNIC, ABEOKUTA

DEPARTMENT OF COMPUTER SCIENCE

FIRST SEMESTER EXAMINATION, 2023/2024

COURSE CODE: COM 412 (PROJECT MANAGEMENT)

TIME: 2 hrs   UNITS: 2   CLASS: HND II COMPUTER SCIENCE (FT/PT)

INSTRUCTIONS: Attempt any THREE question in Section A and any ONE in Section B

Section A

1. Describe the concept of Three-point estimating technique. Hence, explain the term *Optimistic, Most Likely* and *Pessimistic*   (8 marks)

b. Suppose a project is optimistically believed to be completed in 6 hrs. When presentation was made to the project steering committee, the completion time was adjusted as most likely to be 10 hrs. As work began on the project, the project team started considering a pessimistic view of completion time of 15 hrs. Using the three-point technique, calculate the estimate (E) completion time of the project based on Triangular distribution and Beta distribution   (6 marks)

c. Differentiate between Cost estimation and Cost Budgeting   (ii) Highlight any seven requirements for performing a good cost estimation   (11 marks)

2. Differentiate between Project risk and project risk management (ii) Describe any four common types of project risks   (12 marks)

b. Briefly describe the five basic steps for managing project risks   (10 marks)

c. Mention the three main sources of risks in project managements   (3 marks)

3. Differentiate between the following terms:

i. Quality assurance and Quality Control   ii. Project Execution Gaps and Project Execution Challenges

iii. Resource Plan and Project Budget   iv. Project scope and Project Schedule   (16 marks)

b. State four advantages of Quality management   (4 marks)

c. Mention any five examples of project planning software   (5 marks)

4. Describe five reasons why project management is needed   (10 marks)

b. Describe a Project. Hence, enumerate the four basic features of a projects   (10 marks)

c. State any five accepted features of Requirement analysis documentation   (5 marks)

Section B (attempt any one question in this section)

6. Explain the following menus in MS Project:

    i.   File,   ii. Task   iii. Resources,
    iv. Report and   v. View menus   vi. Gantt chart   9mks

b. What does it mean to link task? Hence with your laboratory experience highlights the steps you would take to link a task TASKA to another TASKB   6mks

c. The critical path in a project schedule plan is made up of critical tasks, what is a critical path? When does a project reach a critical path?   5mk

7. As a professional project manager, answer the following question:
   i.   What is the first step in initiating a new project?   1mk
   ii. How can you effectively manage project risks?   3mks
   iii. How can you ensure effective communication within a project team?   2mks
   iv. How can you manage scope changes during a project?   2mks
b. List and briefly explain five (3) applications that can be used for Project Management
                                                                                                                   3mks

c. Microsoft project provides several ways to view cost information for a project. It can be viewed as fixed cost, fixed cost accrual, total cost baseline, variance and remaining fields for each task when you apply the cost table Gantt chart. Complete the table below to describe the fields:

FIELD	DESCRIPTION
Fixed cost	
Fixed cost Accrual	
Total cost	
Variance	
Actual	
Remaining	

                                                                                                                   9mks