



## SPRING MID SEMESTER EXAMINATION-2023

School of Computer Engineering  
Kalinga Institute of Industrial Technology, Deemed to be University  
Software Project Management  
IT 3032

Time: 1 1/2 Hours

Full Mark: 20

*Answer any four Questions including Q.No.1 which is Compulsory.  
The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable and all parts of a question should be answered at one place only.*

1. Answer all the questions. [ 1 x 5 ]
  - a) What is Project, Programme & Portfolio?
  - b) What is Payback Period ? Explain with a suitable example.
  - c) What is Gantt Chart ? Briefly explain with a suitable example.
  - d) Differentiate between a Product Breakdown Structure & Product Flow Diagram.
  - e) Explain the characteristics of a Self-Organizing & Cross Functional Team
2.
  - a). why a Project fail ? Prepare a concise note. [ 2.5 + 2.5 ]
  - b).What is Project Planning ? Explain the important activities of Project Planning
3. The initial investment and year-wise cash flow for four years on a project is given below. [ 2.5 + 2.5 ]

Year	Project cash flow
0	-100,000
1	20,000
2	30,000
3	40,000
4	50,000

Calculate the followings:

- a).Return on Investment
  - b).Net Present Value [NPV] with a discount rate of 10%.
4. a). What is DSDM Atern ? Explain in detail , the principles and the operational framework. [ 2.5 + 2.5 ]
- b). Briefly explain Agile SCRUM framework.
5. a). Briefly explain different techniques used in software Project Estimation ? [ 2.5 + 2.5 ]
- b). The size of an organic type software product is estimated to be 50,000 lines of source code. Assume that the average salary of a software developer is Rs.60,000 per month. Determine the effort required to develop the software product, the nominal development time, and the staff cost to develop the product.

\*\*\* Best of Luck \*\*\*