4th Semester Regular/Back Examination: 2023-24
SUBJECT: Managing Software Projects
BRANCH(S): GM,MBA
Time: 3 Hour
Max Marks: 100
QP.Code : P146
Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.
The figures in the right hand margin indicate marks.

Part-I

Q1 **Answer the following questions:** (2 x 10)
- **a)** What is the difference ina Software Project vs. Other Projects?
- **b)** What is the objective of software project management?
- **c)** What are some ways of categorizing software projects?
- **d)** What is the role of Management Control?
- **e)** What is the essence of Project Portfolio management?
- **f)** What is meant by Stepwise Project Planning?
- **g)** What is meant by stakeholders in a software project?
- **h)** What is software proto-typing?
- **i)** What is CBA Technique?
- **j)** What is the need of doing Risk evaluation?

Part-II

Q2 **Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)** (6 × 8)
- **a)** What is the purpose of doing effort estimation in software projects?
- **b)** Discussthe aspects considered foridentifyingtherisksinsoftware project development.
- **c)** Elaborate on various aspects covered under aids to programme management.
- **d)** Why do we do "Build or Buy" decision in selection of appropriate project?
- **e)** Explain what is meant by Programme Management.
- **f)** Explain the importance of proper resource allocation for effective programme management. Give relevant example.
- **g)** Explain how evaluation of individual projects is carried out.
- **h)** Explain software prototyping and state its advantages. Substantiate with suitable example.
- **i)** State a few reasons for which software project may fail.
- **j)** Explain software effort estimation in terms of the basis and techniques.

k) Explain the Waterfall model with its pros and cons.

l) In the context of "structure vs. speed of delivery", explain how to select a process model. Substantiate with practical examples.

Part-III
Only Long Answer Type Questions (Answer Any Two out of Four)

Q3 Explain the software effort estimation techniques used for different types of projects. **(16)**

Q4 Explain in details the critical success factors or aspects that should be addressed in Strategic Programme Management. Give suitable examples to show its relevance. **(16)**

Q5 Describe the Spiral model in details with appropriate example in the context of software project. **(16)**

Q6 How is evaluation of individual project done? Support with examples to explain properly. **(16)**