



25804667

**QP CODE: 25804667**

**Reg No** : .....

**Name** : .....

**I.M.C.A DEGRE EXAMINATION, OCTOBER 2025**

**Fifth Semester**

Integrated MCA

**CORE - IMCA5C05 - SOFTWARE ENGINEERING AND PROJECT MANAGEMENT**

2020 Admission Onwards

EE06DD8A

Time: 3 Hours

Maximum: 75 Marks

**Part A**

*Answer any **ten** questions*

*Each question carries **3** marks*

1. How do web applications differ from traditional software applications?
2. What is the software development process?
3. How does the agile methodology fit into specialized process models?
4. What is the primary goal of requirements elicitation in the software development process?
5. What role does technology and tools play in software engineering project management?
6. What is cost-benefit analysis (CBA) and why is it used in project evaluation?
7. How do you select the appropriate technologies for a software project?
8. What are some key practices or principles associated with Extreme Programming (XP)?
9. List out the basis factors for software estimating.
10. What are the different types of function points in FPA and how are they calculated?
11. List out different approaches for identifying the activities or task of a project.
12. What are some common risk response strategies used in software project management?

(10×3=30 marks)





## Part B

Answer **all** questions

Each question carries **9** marks

13. a) Explore the unique characteristics of web applications (WebApps) and how they differ from traditional desktop software. Discuss their advantages and challenges.

OR

- b) Explain the concept of a generic process model in software engineering.

14. a) Define the functions of management in a software engineering project. Discuss the significance of each function and how they contribute to project success.

OR

- b) Discuss into the various cost-benefit evaluation techniques used in project assessment.

15. a) Describe the key principles and phases of the Waterfall model. How does it differ from other software development methodologies?

OR

- b) Explain Dynamic Systems Development Method (DSDM) and how does it relate to software development?

16. a) Discuss expert Judgement in software effort estimation and how their expertise can contribute to more accurate estimations.

OR

- b) Explain the basic principles and assumptions of the COCOMO model for software effort estimation.

17. a) Describe the steps involved in constructing a PERT chart for a project scheduling.

OR

- b) Describe the key steps involved in project risk management process.

(5×9=45 marks)

