

**BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT**

(Autonomous Institute under Visvesvaraya Technological University, Belagavi)

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Course Code 

2	3	M	C	A	1	4
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**First Semester MCA Degree Examinations, November 2024**  
**SOFTWARE ENGINEERING & PROJECT MANAGEMENT**

Duration: 3 hrs

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. Missing data, if any, may be suitably assumed

<u>O. No</u>	<u>Question</u>	<u>Marks</u>	<u>(RBTL:CO:PI)</u>
<b><u>MODULE – 1</u></b>			
1.	a. Define software engineering. Briefly discuss the attributes of good software.	10	(2:1:1.2.1)
	b. With a neat diagram, explain Bohem's spiral model with advantages and disadvantages.	10	(2:1:1.2.1)
<b>(OR)</b>			
2.	a. Explain with a neat diagram the different stages of requirement engineering process.	10	(2:1:1.2.1)
	b. What is requirement specification? Explain various ways of writing requirement specification.	10	(2:1:1.2.1)
<b><u>MODULE – 2</u></b>			
3.	a. What is object oriented development? Explain the different characteristics of object-oriented themes.	10	(2:1:1.2.1)
	b. Explain with a neat diagram the different types of interaction model.	10	(2:1:1.2.1)
<b>(OR)</b>			
4.	a. With a neat diagram, explain the context model of MHC – PMS system.	10	(2:1:1.2.1)
	b. State the following terms with an example	10	(2:1:1.2.1)
	(i) Links and associations		(ii) Multiplicity
	(iii) Bags and sequence		(iv) Association end names
<b><u>MODULE – 3</u></b>			
5.	a. Describe the three different types of user testing.	10	(2:3:1.2.1)
	b. Explain software reengineering process with a neat diagram.	10	(2:3:1.2.1)
<b>(OR)</b>			
6.	a. Explain briefly about the factors used in environment and application assessment of legacy system management.	10	(2:3:1.2.1)
	b. Discuss TTD with its process and benefits.	10	(2:3:1.2.1)
<b><u>MODULE – 4</u></b>			
7.	a. Discuss the software review process and inspections of quality assurance.	10	(2:4:1.2.1)
	b. Define software pricing. Discuss the factors affecting software pricing.	10	(2:4:1.2.1)

(OR)

8. a. Describe the following with respect to project plan development: **10** (2:4:1.2.1)  
(i) project plan sections (ii) project scheduling
- b. With a neat diagram, explain COCOMO – II estimation model. **10** (2:4:1.2.1)

**MODULE – 5**

9. a. Explain the model of patient health care system. **10** (2:5:1.2.1)
- b. Explain the model of washing machine. **10** (2:5:1.2.1)

(OR)

10. a. Explain the model of weather station standards. **10** (2:5:1.2.1)
- b. Explain the model of microwave oven. **10** (2:5:1.2.1)

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