


RAN-2111000607030001

M.Sc. (IT) (NON-NEP) (Sem.-VII) Examination November - 2025
Software Engineering (Paper-703)

Time: 3 Hours]
[Total Marks: 70
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q.1. A. Answer the following questions in brief [Any Six] 12

- What is PERT chart?
- What are the activities of project management?
- What is a baseline?
- What is known risk?
- Software is almost always delivered late. Justify
- What is LOC based estimation?
- What is the relation between people and effort?

Q.1. B. What is project scheduling? Explain few project scheduling techniques. 6

Q.2. Answer the following questions in detail [Any Three] 18

- Explain creational pattern in detail.
- Explain types of SE resources in detail.
- What is risk management in software engineering? What are the different risks can come with AI oriented software development? Design the basic risk table for that.
- What is software quality? Explain CMM and CMMI in detail.

Q.3. Answer the following questions [Any Six] 18

- What is RMMM plan?
- Explain SE with reference to mobile application development.
- What is SV and PV in Earned value analysis?
- What is service oriented software engineering?
- What is unpredictable risk?
- Differentiate ISO and CMM.
- Explain WebE Process Framework.

Q.4. A. Calculate the raw FP, FP Estimate, estimated cost and estimated effort for a project with the following information domain characteristics. 8

Information Domain Values	Counts	Weighting Factors
No. of inputs	30	5
No. of outputs	30	4
No. of inquiries	20	3
No. of files	15	4
No. of external interfaces	15	4

The CAV values are average for all the factors. The FP/PM is 400,
Salary rate = Rs. 70,000 per month.

Q.4. B. Answer any TWO questions

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1. What is an agile methodology? Explain basic principles.
 2. Describe web application testing methods.
 3. What are the main functions of automated SCM repository?
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