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Roll No 36

MCADD-505

M.C.A. (Integrated), V Semester

Examination, November 2023

Software Engineering

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. ~~a)~~ Explain software development life cycle model. Also explain each phase of this model.
~~b)~~ What are software characteristics? Also compare with hardware characteristics.
2. ~~a)~~ Explain Spiral process model. And also mention advantages and disadvantage of this model.
~~b)~~ Discuss two software applications with the help of real example.
3. a) List the outline of stepwise project planning.
b) Explain how project can be evaluated against strategic, technical and economic criteria?
4. ~~a)~~ What do you mean by 'Code Review' Discuss the differences between Code Inspection and Walk through?
b) Explain different three stages of COCOMO II model.

5. a) What is the difference between Event processing systems and Language processing systems.
 - b) What is rapid application development? Explain in details.
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- ~~6.~~ a) What is the difference between Safety specification and Security specification?
 - ~~b)~~ What are the metrics for source code and maintenance? Explain.
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7. a) Define software quality. Discuss various software quality attributes. Also discuss statistical quality assurance.
 - b) How black box testing is different from white box testing? What is the objective of each?
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8. Write short notes on the following:
 - a) Agile methods
 - b) Software prototyping
