



Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

PO Box: 21, Dharamshala, District Kangra, Himachal Pradesh-176215

Name of Programme of Study....., Roll No:

(To be filled by the student)

END Term Examination

Name of the Course: Software Engineering

Semester: 1st

Course Code: MCA 521

Time: 2 Hours

Date: 23/03/2023

Maximum Marks: 60

Note:

1. Answer Sections A, B & C in the answer book provided.
2. Comply with the instructions given in the Main Answer Book carefully.
3. In case of any discrepancy, the English version will prevail question

SECTION – A

VERY SHORT ANSWER TYPE QUESTIONS

(10x1=10 Marks)

1. Answer all the following questions with one mark each.

- i. Who is the father of Software Engineering?
- ii. What is the full form of the “COCOMO” model?
- iii. State True/False: “A waterfall model is most suitable model for smaller projects”.
- iv. The user system requirements are the parts of which document?
- v. In a DFD external entities are represented by a _____ ?
- vi. A directed arc or line in DFD represents _____ ?
- vii. What is represented by a Data Store Symbol in DFD?
- viii. _____ is a new way of analyzing software that is based on abstractions existing in the real world.
- ix. The waterfall model assumes that the requirements are well known before the ____ commences.
- x. Which coupling is also known as “Global coupling”?

SECTION – B

SHORT ANSWER TYPE QUESTIONS

(4x5=20 Marks)

Answer any FOUR out of the following SIX questions.

2. What do you mean by testing? Also list the different types of testing techniques.

- X 3. Define Agile scrum methodology.
- 4. Write a note on Coupling.
- 5. Discuss the pros and cons of Spiral model.
- 6. Define Top-Down process in a Software Design?
- 7. Discuss Requirements Elicitation Techniques in detail.

SECTION – C
LONG ANSWER ESSAY TYPE QUESTIONS

(4x7.5=30 Marks)

Answer any FOUR out of the following SIX questions.

- 8. Explain Software quality assurance (SQA).
- 9. Discuss the different Software characteristics.
- 10. Discuss various Models for Requirements analysis.
- 11. Write the various steps involved in SDLC. Also explain each step-in detail.
- 12. Differentiate between waterfall and prototyping model.
- 13. Elaborate the concept of cohesion using suitable examples.
- 14. What are Data flow diagrams? Discuss in detail.