MSCCS–09/MSCCS–203/ MSCCSC–203/MCA–203

June – Examination 2023

MSCCS (Final)/MCA (IInd Year) Examination

SOFTWARE ENGINEERING

Paper : MSCCS–09/MSCCS–203/ MSCCSC–203/MCA–203

*Time : **3** Hours*] [*Maximum Marks : **80***

Note :– The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section–A **8×2=16**

(Very Short Answer Type Questions)

Note :– Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) Define Software Engineering.

(ii) What is requirement Engineering ?

(iii) What is meant by Software Prototyping ?

(iv) Define Design Process.

(v) What is equivalence partitioning ?

(vi) What is need for cyclomatic complexity ?

(vii) What is meant by Software Management ?

(viii) Define CASE tools.

Section–B **4×8=32**

(Short Answer Type Questions)

Note :– Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

2. Define Software Process. State important features of a process.

3. Explain Spiral Model. What is the task region in the spiral model ?

4. Write short note on software specification.

5. What is Coupling ? List out all coupling types.

6. Explain SCM repository.

7. What is boundary value analysis ?

8. Discuss in detail about alpha and beta testing.

9. Describe about the constructive cost model in detail.

Section–C **2×16=32**

(Long Answer Type Questions)

Note :– Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 16 marks.

10. What is DFD ? Construct the level 2 DFD for University information system. Also explain diagram.

11. What is test case ? How to design test case ? Explain with suitable example.

12. Describe two metrics which are used to measure the software in detail.

13. Write short notes on the following :

(a) CASE tools

(b) 4GL model