

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1442

Roll No.

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M.C.A.

(SEM. V) ODD SEMESTER THEORY
EXAMINATION 2010-11

SOFTWARE ENGINEERING

Time : 3 Hours

Total Marks : 100

Note :— (1) Attempt all questions.

(2) Each question carries equal marks.

1. Attempt any **four** of the following :— **(5×4=20)**

- (a) What is Software Engineering ? Discuss.
- (b) Discuss major areas of the applications of the Software.
- (c) What are the important activities that are carried out during feasibility study phase ?
- (d) Discuss the evolving role of Software.
- (e) Describe the characteristics of Software.
- (f) What is software process ? Why is it difficult to improve ?

2. Attempt any **two** of the following :— **(10×2=20)**

- (a) Describe the role of management in software development with the help of examples.
- (b) What are major phases in the waterfall model of software development ? Discuss.

(c) (i) Discuss major advantages of the object oriented design methodologies.

(ii) Define module coupling and explain different types of coupling.

3. Attempt any **two** of the following :— (10×2=20)

(a) What is a coding standard? Why is it necessary for Software Engineers to adhere to a Coding Standard ?

(b) (i) Distinguish between software verification and software validation.

(ii) What is the purpose of integration testing ? How is it done ?

(c) Briefly discuss the following :—

(i) White Box Testing

(ii) Debugging.

4. Attempt any **two** of the following :— (10×2=20)

(a) What are the various activities during software project planning ? Discuss.

(b) Discuss the Putnam resource allocation model.

(c) Discuss the following :—

(i) Software Maintenance

(ii) Software Quality.

5. Write short notes on any **two** of the following :— (10×2=20)

(a) Software Re-engineering

(b) Computer Aided Software Engineering and its Benefits

(c) Software Reliability Issues.