

8. (a) What is configuration management ? How is it useful and used ? Discuss with examples.
- (b) Explain software reuse and software evolution with examples.
9. Explain the following with examples :
- (a) Software Maintenance and its types and advantages
- (b) SQA and its plans and applications

Roll No.

67173

**MCA 4th Semester (Non CBCS Scheme)
(Re-appear) Examination – October, 2020**

SOFTWARE ENGG.

Paper : MCA-403

Time : 1.45 Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *three* questions. All questions carry equal marks.

1. Answer the following questions briefly :

- (a) What is regression testing ?
- (b) Discuss Project Scheduling.
- (c) Explain CASE tools and their uses.

- (d) Describe software documentation and its advantages.
 - (e) Explain good coding style briefly.
 - (f) Discuss levels of software design with an example.
 - (g) What is COCOMO model ?
 - (h) What are merits and demerits of LOC metric ?
2. (a) Define software engineering ? How is it useful, used and different from other engineering disciplines ? Discuss its applications with examples.
- (b) Explain uses and advantages of Spiral model with an example. Also compare it with water fall model.
3. Explain the following briefly with suitable examples :
- (a) Software myths and their causes
 - (b) Software Project Planning and Scheduling and their advantages

67173- (P-4)(Q-9)(20) (2)

4. (a) What is Putnam model ? How it is useful and related with cost ? Explain with suitable examples.
- (b) Discuss major software process and product metrics with examples.
5. Describe the following with examples :
- (a) Software requirements validation and verification
 - (b) Software Empirical model
 - (c) Functional and non-functional requirements
6. (a) Differentiate between software coupling and cohesion with suitable examples and also discuss their types and relative merits and types.
- (b) Discuss software interface design with suitable examples.
7. Explain the following with examples :
- (a) Software reliability and its metrics
 - (b) Software safety techniques and their advantages

67173- (P-4)(Q-9)(20) (3)

P. T. O.