No. of Printed Pages—2

647 (SE)

[18–HRGPKAC–MCA5S]

MCA 5th Semester Exam., 2018

SOFTWARE ENGINEERING

Full Marks : 80

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Answer any *five* questions from the following : 2×5=10

(a) What do you mean by software portability?

(b) What is the prime objective of a spiral model?

(c) Define software crisis.

(d) What are organizational requirements?

(e) What is functional modeling?

(f) Define code verification.

2. Answer any *three* questions from the following : 4×3=12

(a) What are software engineering layers?

(b) What are the advantages of prototyping model?

(c) Briefly discuss the term 'cost estimation'.

(d) What are the characteristics of SRS? Briefly discuss any two of them.

3. Answer any *three* questions from the following : 6×3=18

(a) Explain the steps to create a PERT chart.

(b) Explain the significance of ER modeling.

(c) Explain HIPO with the help of a diagram.

(d) Explain the basic concept of code inspection and reviews.

4. Answer any *four* questions from the following : 10×4=40

(a) What is operating system? Explain different components and functions of operating system. 2+8=10

(b) What is configuration management? Explain configuration management process with the help of block diagram. 4+6=10

(c) Describe the process of validation with the help of an example. 10

(d) What is decision table? How do we develop a decision table? Explain. 3+7=10

(e) Why is software maintenance necessary? Name some types of software maintenance. 4+6=10

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