

**2018**

Full Marks - 40

Time - 3 hours

The figures in the right-hand margin indicate marks

Answer *all* questions

1. Why are the characteristics of software and its classifications ? Explain the water fall model of software development and its advantages and disadvantages. 10

OR

- a) What is Software Requirement ? Explain the various types of requirements. 5
  - b) What is SRS ? Explain its purpose in software development and its characteristics. 5
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2. What do you mean by Cohesion and coupling ? Explain the various types of cohesion and coupling. 10

OR

[ 2 ]

Write briefly the following :

2½ × 4

- a) User Interface design and its various categories.
  - b) Coding methodology
  - c) Difference between white and black box testing
  - d) Difference between verification and validation.
3. Define software maintenance. Explain software maintenance life cycle and various types of software maintenance. 10

OR

What is Software Project Planning ? What are the project purpose categories and objective of each category. Explain the project planning process and what are the sections of a project plan ? 10

4. a) What do you mean by software cost estimation process and its activities ? Briefly write the benefits of cost estimation process. 5

[ 3 ]

- b) What do you mean by COCCOMO ? Explain the advantages and disadvantages of COCCOMO. Discuss the basic COCCOMO for different types of projects. 5

OR

- c) What do you mean by SQA and its objectives. Explain the process quality assurance and product quality assurance activities. 5
- c) Briefly explain CMM and key process areas of CMM. Give the difference between ISO 9000 and CMM. 5

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