

Reg. No. :

D 42

**Q.P. Code : [07 DSCA 06/
07 DSC 06]**

(For the candidates admitted from 2007 onwards)

B.C.A./B.Sc. DEGREE EXAMINATION,
DECEMBER 2010.

Second Year

Part III — Computer Application/Computer Science

SOFTWARE ENGINEERING

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. What are the various steps involved in software engineering? Elaborate the steps.
2. Discuss the concept of staffing – level estimation.
3. Explain the modules and modularization criteria in software design in detail.
4. Describe the different coding styles.

5. Discuss in detail about :
 - (a) Walkthroughs and Inspections
 - (b) Quality Assurance
 - (c) System Testing
 - (d) Unit Testing and Debugging.
6. Explain in detail about configuration management.
7. Narrate the Algorithmic cost models.
8. Explain any two Design Techniques followed in software design.

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Third Year

Part III — Computer Applications/Computer Science

COMPUTER NETWORKS

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

1. With a neat sketch, explain the functions of various layers in OSI reference model.
2. Explain the various guided transmission media.
3. Discuss in detail on communication satellites.
4. Explain with examples; the error detection and correction codes.
5. Describe in detail on sliding window protocols.

6. Explain with examples, any three routing algorithms in computer networks.
7. Discuss in detail on Cryptography.
8. Explain in detail on Electronic Mail.