M.Sc. COMPUTER SCIENCE (SECOND YEAR) DEGREE INTERNAL TEST QUESTION PAPER

PAPER-I : COMPUTER NETWORKS

Max. Marks:20
Answer any FOUR questions. Each question carries 5 marks (Marks: 4 x 5 =20)

1. Write a short note on modem.

2. Explain various network topologies.

3. Write about FTP and ISDN.

4. Explain about token Ring and Bus topology.

5. Explain about DNS and its significance.

6. Discuss about the five basic network topologies.

7. Explain about Email System.

8. Explain about Error-Detection and Error Correction codes with an example.

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PAPER-II : SOFTWARE ENGINEERING

Max. Marks:20
Answer any FOUR questions. Each question carries 5 marks (Marks: 4 x 5 =20)

1. Explain Integration testing.

2. Briefly explain Empirical Estimation Models.

3. Define Software Process. Explain process framework activities.

4. Explain about Data Dictionary with example.

5. Distinguish between Waterfall model and Incremental model.

6. Explain software testing fundamentals.

7. List the metrics for software quality and explain them.

8. Explain effort Distribution in detail.

SRI VENKATESWARA UNIVERSITY : TIRUPATI
DIRECTORATE OF DISTANCE EDUCATION

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PAPER-III : SYSTEM SOFTWARE

Max. Marks:20
Answer any FOUR questions. Each question carries 5 marks (Marks: 4 x 5 =20)

1. Define system software and give some example of system software.

2. What are the registers of SIC?

3. What are assembler directives?

4. What are machine dependent assembler features?

5. Define a loader? Write its basic functions.

6. Differentiate a Macro and subroutine.

7. What is lexical analysis?

8. Discuss single user and multi-user operating system.

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Max. Marks:20
Answer any FOUR questions. Each question carries 5 marks (Marks: 4 x 5 =20)

1. Differentiate Raster and Random Scan Methods.

2. Write a short note on touch sensitive devices.

3. What is disadvantages of aliasing and how anti aliasing is implemented.

4. Differentiate View port and window with example.

5. Write the transformation matrix for rotation about Y axis.

6. What is clipping and mention clipping techniques.

7. Write a short note on dithering techniques.

8. How is shearing performed for a rectangle. Elucidate it.

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M.Sc. COMPUTER SCIENCE (SECOND YEAR) DEGREE INTERNAL TEST QUESTION PAPER

PAPER-V : CRYPTOGRAPHY AND NETWORK SECURITY

Max. Marks:20
Answer any FOUR questions. Each question carries 5 marks (Marks: 4 x 5 =20)

1. What is meant by access control and availability?

2. What is meant by encryption and Decryption?

3. Define ingredients used in symmetric encryption scheme.

4. What types of attacks are addressed by message authentication?

5. Explain the process of exchange of public key Certificates.

6. Explain Euler's Theorem.

7. How do you differentiate virus and worm?

8. What are the services that are provided by SET?

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M.Sc. COMPUTER SCIENCE (SECOND YEAR) DEGREE INTERNAL TEST QUESTION PAPER

PAPER-VI : SOFTWARE TESTING

Max. Marks:20
Answer any FOUR questions. Each question carries 5 marks (Marks: 4 x 5 =20)

1. Explain the following.

    (a) Testing Vs. Debugging

    (b) Function Vs. Structure

2. Describe about Transaction – Based Systems.

3. Explain any five bug assumptions while performing domain testing.

4. Write the modeling rules for Data-Flow model.

5. What is good state? Explain good state graph briefly.

6. How loops will be tested and explain with one example.

7. Describe about Ugly Domains and Nice Domains

8. Write the procedure for Specification validation.