

**SRI VENKATESWARA UNIVERSITY : TIRUPATI**  
**DIRECTORATE OF DISTANCE EDUCATION**

DEPARTMENT OF COMPUTER SCIENCE

**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.

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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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PAPER-IV : COMPUTER GRAPHICS

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 are the 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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