

[This question paper contains 2 printed pages.]

2519

Your Roll No.

B.Sc. / III

A

COMPUTER SCIENCE – Paper VI

(Multimedia System and Application Operating System)

Time : 3 hours

Maximum Marks : 38

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

All questions are compulsory.

1. (a) What is Software Configuration Management?
What is its role in software engineering? (3)
- (b) Define cohesion. Explain any two levels of
cohesion. (3)
- (c) What are software metrics? What is the role of
software metrics in project management? (2)
- (d) Differentiate between :
 - (i) lossless and lossy data compression techniques
 - (ii) > and >> operator in Unix
 - (iii) validation and verification (2×3=6)

P.T.O.

2. (a) What is a Unix process? How can you send a process to background and keep track of it? Explain *kill*, *nohup*, and *at* commands with examples. (4)
- (b) Write a command to append the output of file Test1 to file Test2. (2)
- (c) Write a command to display the names of the files and subdirectories in the current directory. The files and subdirectories should be displayed in reverse order. (2)
3. (a) What do you understand by animation? Give a few examples to explain its uses in Multimedia applications. (4)
- (b) What is HDTV? Name two standards that are based on this technology. List the main characteristics of these two standards. (4)
4. (a) Describe the Spiral Model in your own words. State its advantages and disadvantages. (4)
- (b) What are the different types of testing? (4)