



GUG/W/15/5571

B.Sc. I (With Credits)-Regular-Semester 2012 Sem II

2SCS-T1 Computer Science -I
Paper- I (Operating System)

P. Pages : 3

Time : Three Hours

Max. Marks : 50

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- Notes : 1. Draw neat and labelled diagram wherever necessary.
2. All questions are compulsory and carry equal marks.

1. Either :

- a) Explain the function and role of operating system. **5**
- b) Differentiate between parallel and real time operating system. **5**

OR

- c) Explain storage structure and storage Hierarchy. **5**
- d) Discuss system architecture in detail. **5**

2. Either :

- a) Explain any four system components. **5**
- b) Explain the role of system administrator. **5**

OR

- c) Write a brief note on : **5**
 - i) System call
 - ii) Operation on process
- d) Explain information maintenance and communication. **5**

3. Either :

- a) Elaborate structure of Linux operating system. **5**
- b) Explain Korn and C-shells in detail. **5**

OR

- c) Explain the following : **5**
 - i) Text editing with Vi editor.
 - ii) Naming files.
- d) Explain the directory structure of Linux. **5**

4. Either :

- a) Explain any two permission modes in detail. **5**
- b) Discuss control flow statements in detail. **5**

OR

- c) Explain the concept of Arithmetic in shell script. **5**
 - d) Write a short note on : **5**
 - i) ps
 - ii) vill
- 5.**
- a) Explain dual mode operation in operating system. **2½**
 - b) Write a short note on simple layered approach. **2½**
 - c) Write about Bourne shell. **2½**
 - d) Discuss the following : **2½**
 - i) Grep
 - ii) egrep.
