C 26290 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.VOC. DEGREE EXAMINATION, APRIL 2017

Software Development

SDC 4IT 14—ADVANCED COMPUTER NETWORKS

Time : Three Hours Maximum : 80 Marks

Section A

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What protocol is used by TCP for flow control ?
2. What do you mean by NFS ?
3. Which system call is made to create a FIFO ?
4. Is it true that messages send by a IPC are to be fixed in size.
5. What is a blocking socket ?
6. Which are the two kinds of Semaphores ?
7. List the types of Radio frequency systems spread spectrum technology.
8. What do you mean by collision avoidance ?
9. What is Point co-ordination IFS ?
10. Which are the two types of BSS ?

(10 × 1 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. What is slow start ?
12. SNMP MIB has an associated identifier. What is its role ?
13. Why DNS is important ?
14. Distinguish between named and unnamed PIPEs.
15. List the TCP congestion control Algorithms.
16. Why should you use system call shutdown() ?
17. Explain socket options.

Turn over

18. What is a Cell ?
19. What is reuse factor ?
20. Characteristics of wireless links.
21. Define Foreign Agent.
22. Shortly explain 3G.

(8 × 2 = 16 marks)

Section C

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. How does TFTP works ?
24. Write a note on timers used by TCP.
25. Explain how does UDP allows two applications running in two remote locations communicate.
26. What is SACK option ?
27. Write a routine to convert a string to internet address.
28. Explain *Binary Exponential Back off* algorithm.
29. Illustrate inner product.
30. Differentiate Dedicated Leased Line and Shared Access.
31. Explain Binder Scheme.

(6 × 4 = 24 marks)

Section D

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. What is NFS? How NFS implementation is done in TCP/IP ?
33. Draw TCP Segment format and explain it.
34. Explain the socket system calls for the connection oriented communication in detail.
35. What do you mean by mobility within same subnet ?

(2 × 15 = 30 marks)