ಹೊಸ ಪಠ್ಯಕ್ರಮ (೨೦೦೫-೨೦೦೬ ಶೈಕ್ಷಣಿಕ ವರ್ಷದಲ್ಲಿ ಅಭ್ಯಾಸ ಮಾಡಿದ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ)
New Scheme (For Students studied during the Year 2005-2006)

Code No. 41-NS

Total No. of Questions : 37] [Total No. of Printed Pages : 4

July, 2006

COMPUTER SCIENCE

(New Syllabus)

Time : 3 Hours] [Max. Marks : 90

PART – A

Note : i) Answer *all* the questions.

ii) Each question carries *one* mark. $10 \times 1 = 10$

1. What is the function of MAR ?

2. Give any one feature of USB port.

3. Mention any one advantage of top-down approach.

4. What is the significance of Null character ?

5. How is function invoked ?

6. Define data.

7. What is meant by tuple ?

8. Give one application of on-line processing system.

9. Name any one multiuser operating system.

10. What is E-commerce ?

[Turn over

PART – B

Note : i) Answer any *ten* questions.

ii) Each question carries *two* marks. $10 \times 2 = 20$

11. List any two factors that affect the processing speed of a computer.

12. What do you mean by searching ? Mention any one type.

13. Give any two advantages of structured programming.

14. Define two-dimensional arrays. How are they declared ?

15. What are the possible values the strcmp ( ) function can return ? What do they mean ?

16. Explain briefly the following :

    a) Local variables

    b) Global variables.

17. How is structure declared ? Give an example.

18. What are the meaning of the following in pointers ?

    a) X = $ y

    b) X = * y.

19. Mention any two merits of Indexed sequential file organisation.

20. Write a brief note on relational database.

21. What do you mean by networking ? Mention any one advantage.

22. Discuss briefly about Local Area Network.

PART – C

Note : i) Answer the following questions.

ii) Each question carries *five* marks. $8 \times 5 = 40$

A. Answer any *two* questions :

23. Explain the general structure of CPU.

24. What do you mean by non-impact printer ? Explain any two.

25. Write a note on computer security.

B. Answer any *one* question :

26. Write an algorithm for insertion sort.

27. Suppose the following numbers are stored in *A* array

32, 50, 16, 42, 9, 3.

Apply bubble sort.

C. Answer any *three* questions :

28. Write a *C* program using recursion to find the sum of *n* natural numbers.

29. What are storage classes ? Explain any two with example.

30. Compare call by value and call by reference with an example.

31. What is a file ? Explain any four types of file access modes.

D. Answer any *two* questions :

32. Explain the different stages of data processing cycle.

33. Mention different database operations. Explain any two with example.

34. Write a note on features of UNIX.

PART – D

Note : i) Answer any *two* questions.

ii) Each question carries *ten* marks. $2 \times 10 = 20$

35. Write a flowchart to find the sum of maximum and minimum of N natural numbers (without using arrays).

36. Write a *C* program to count numbers of vowels and consonants in a given string.

37. i) Mention any two applications of distributed data processing system. 2

ii) What is network topology ? Mention different types of network. 4

iii) Write a note on applications of E-commerce. 4