

Sub.Code : 230

NEB - GRADE XII

Computer Science

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 75

Pass Marks: 27(For partial students only)

Group 'A'

(Long answer questions)

Attempt any **four** questions.

4×10=40

1. a) What is "if else" statement ? Write a program to input any three number and find the smallest number. 2+3
b. Describe the while loop with example. 2+3
2. Define array. Write a program to sort the ten integers number in ascending order and display it. 2+8
3. Compare structure and union. Write a program to input roll, name and sex of five students and display them properly using structure. 2+8
4. Explain the function with example. Write a program to demonstrate any two string function using C. 4+6
5. a) Describe the pointer with example. 5
b) What are the different modes of file operation in C programming ? Describe. 5

Group 'B'

(Short answer questions)

Attempt any **seven** questions.

7×5=35

6. Describe the economic, technical and operational feasibility analysis. 5
7. Describe 1NF, 2NF and 3NF normalization concept to database design. 5
8. Describe the SQL with DDL and DML statements. 5
9. Compare the star and ring Topology. 5
10. What is IP address ? Describe the network protocols. 2+3
11. What is variable ? List the major data types which is used in C program. 2+3
12. Describe OOPs with its features. 5
13. List the top 5 cybercrimes which you have seen or experienced in your college life. Suggest the prevention methods for cybercrime. 2+3
14. Compare the e-commerce and e-governance. 1+4
15. Write short notes on: 2.5+2.5
 - a) AI
 - b) Optical fiber