

F.E. (Semester – II) (Revised in 2007-08) Examination, Nov./Dec. 2015 INFORMATION TECHNOLOGY

Duration: 3 Hours Total Marks: 100

Instructions: 1) Attempt any five questions, with at least one question from each Module.

2) Make suitable assumptions, if required.

Module-I

| 1. | a) | Explain the characteristics of a monitor. | 6 |
|----|----|---|---|
| | b) | What is an operating system? List the functions of operating system. | 5 |
| | c) | What do you mean by topology? Explain any 2 network topologies with the help of diagrams. | 6 |
| | d) | What is an IP address? | 3 |
| 2. | a) | Explain the working of CPU and memory with the help of a diagram. | 7 |
| | b) | Describe the working of email. | 8 |
| | c) | What are input devices? Explain any two input devices. | 5 |
| | | With a C grogram to find the III - aluboM wheets stored in an array. | |
| 3. | a) | Explain the generations of languages. | 6 |
| | b) | Write an algorithm and draw a flowchart to find sum of digits of a number. | 8 |
| | c) | List the characteristics of data in a database. | 6 |
| 4. | a) | Write an algorithm and draw a flowchart to generate Fibonacci series. | 8 |
| | b) | With the help of a neat diagram explain the compilation process. | 6 |
| | c) | Differentiate between high level and low level languages. | 6 |



Module - III

| Э. | a) | an example. | 5 |
|----|----|--|---|
| | b) | Distinguish between ++ i and i++. | 2 |
| | c) | Write a C program using switch statement to implement the simple operations of a calculator. | 6 |
| | d) | What is an operator? Explain the arithmetic, relational and assignment operators in C language. | 7 |
| 6. | a) | What is type conversion? Explain different types of type conversions. | 6 |
| | b) | Explain with example entry controlled and exit controlled loop. | 6 |
| | c) | Write a C program to generate the following pattern. | 5 |
| | 5 | ing Mirat do you mean by topology 7 Explain Bity 2 network toping as with the depth of the common and the commo | |
| | d) | Give the use of break statement in loops with an example. | 3 |
| | | Module - IV | |
| 7. | a) | What is function? Write and explain the general format of function definition. | 5 |
| | b) | Write a C program to find the squares of numbers stored in an array. | 6 |
| | c) | What is recursion? What are the advantages and limitations of recursion? | 4 |
| | d) | Write a C program to open a file and enter some text in it. | 5 |
| 8. | a) | Explain the following file input/output functions.i) rewind()ii) getc()iii) fseek() | 6 |
| | b) | Write a program to read array of n random numbers and sort and print the numbers in ascending order. | 7 |
| | c) | Define and explain two dimensional arrays with example. | 4 |
| | d) | Explain the different modes of a file. | 3 |
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