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Total No. of Pages :3

B. Tech. Ist Semester (Main) Examination Feb.- 2010 Computer Programming and IT (Common to all Branches of Engineering)

1E1024

Time: 3 Hours Maximum Marks: 80

Min. Passing Marks: 24

Instructions to Candidates:

Attempt overall Five questions selecting one question from each unit. All questions carry equal marks.

Unit - I

- 1. a) Define block diagram of computer system. (4)
 - b) Explain various types of memory in detail. (4)
 - Explain low level, assembly and concept of High level programming languages briefly.
 (8)

OR

- a) Explain briefly about compiler, assembler and interpreter. (8)
- b) Make a flowchart to find maximum number among 3 numbers. (8)

Unit - II

2. a) Convert the following :-

 $(4 \times 2 = 8)$

- i) (276.65), to Decimal
- ii) (1101110.1010), to Octal
- iii) (FB9.EC)₁₆ to Octal
- iv) (725.36), to Binary
- b) Write short notes on BCD, ASCIT and EBC.DIC codes. (8)

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(1)

[Contd....

| | a) | Subtract 259 ₁₀ from 798 ₁₀ using, (r-1)'s complement method. | (4) |
|----|----|---|-----------|
| | b) | Subtract 1110101 ₂ from 10001010 ₂ . | (4) |
| | c) | What is bit in computer technology? How many different pattern are possible with | s of bits |
| | | i) 6 bits | |
| | | ii) 8 bits. | |
| | | Unit - III | |
| 3. | a) | Explain structure of program in C language briefly. | (8) |
| | b) | Write a program that given (Inputted) number is prime or not. | (8) |
| | | OR | |
| | a) | Write a program to generate the following pattern. | (8) |
| | | (· 40 · 10 | |
| | | ***** | |
| | | * * * * * * | |
| | | **** | |
| | | * * * | |
| | | * | |
| | 4 | | |
| | b) | Write a program to generate following pattern. | (8) |
| | | 1 | |
| | | 2 3 2 | |
| | | 3 4 5 4 3 | |
| | | 4567654 | |
| | , | 567898765 | |
| | | | |

Unit - IV

| 4. | a) | what is array? What are the advantages of array? Write a programaximum value from n values in array. | am to find (8) |
|----|------|---|------------------|
| | b) | What is pointer? Discuss advantages of pointer. | (8) |
| | | OR | |
| | a) | Explain call by value and call by address. | (8) |
| | b) | Write some records of employee like name, address, age & salar Read that records from file again and display. | y in a file. (8) |
| | | Unit - V | |
| 5. | a) | Define storage class in user define function. | (8) |
| | b) | Write a program of reverse of a number using function. | (8) |
| | | OR | |
| | | te a program that a number (i.e. 153) is Amstrong number of not | using user |
| | defi | ined function return value. | (16) |