

B.E. Sixth Semester (Third Year) (Civil Engineering) (Part Time) (Annual Pattern) (CGS)
Numerical Methods and Computer Programming
(6 CE 01)

P. Pages : 2

Time : Three Hours



AU - 3528

Max. Marks : 80

- Notes : 1. Due credit will be given to neatness and adequate dimensions.
2. Assume suitable data wherever necessary.

SECTION - A

- | | | | |
|----|----|--|---|
| 1. | a) | Explain the utility? Library function explain any seven library functions giving explanatory examples. | 7 |
| | b) | Define constant and variables. Explain in detail rules for constant and variable using example? | 6 |

OR

- | | | | |
|----|----|---|---|
| 2. | a) | Explain briefly the historical development of FORTRAN Language? | 7 |
| | b) | What is statement? Give its types and explain in detail with examples? | 6 |
| 3. | a) | Explain DIMENSION statement in detail with syntax, suitable example and explanatory text? | 7 |
| | b) | Write a program to demonstrate application of assigned Go To Statement. | 6 |

OR

- | | | | |
|----|----|---|---|
| 4. | a) | Explain logical IF statement, giving syntax, suitable example and explanatory text? | 7 |
| | b) | Explain in detail computed Go To and assigned Go To statement with example? | 6 |
| 5. | a) | Explain in detail labelled and Blank common statement with examples. | 7 |
| | b) | Explain the concept subprogram, also explain the similarities and differences between subroutine & function subprogram. | 7 |

OR

- | | | | |
|----|----|--|---|
| 6. | a) | Explain briefly statement function. | 7 |
| | b) | Write a program to demonstrate the use of subroutine subprogram. | 7 |

SECTION - B

- | | | | |
|----|--|---|----|
| 7. | | Write a program to multiply matrix $[A] * [B] = [C]$, also draw flow chart for same? | 13 |
|----|--|---|----|

OR

8. Write a programme to find second order ODE using fourth order Runge Kutta method? Also draw flow chart? 13
9. Write a program to find roots using Regula-Falsi method and also draw flowchart? 13

OR

10. Write a program to find roots of equation by Newton-Raphson method. Also draw flow chart? 13
 $F(x) = x^3 - 5x + 3$.
11. Draw flow chart & write a program to find RL by height of instrument method? 14

OR

12. Write a program to find SF and BM ordinates for S.S. beam subjected to UDL. Also draw flow chart. 14

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