

21N508

Roll No. _____

Total No. of Pages: 3

21N508

B. Tech. II - Sem. (New Scheme) (Main) Exam., (Academic Session 2021- 2022)

All Branch

2FY2 - 08 Computer Fundamentals & Programming
Common to all Branches

Time: 2 Hours

Maximum Marks: 70

Instructions to Candidates:

Part - A: Short answer questions (up to 25 words) 5×3 marks = 15 marks.
Candidates have to answer **five** questions out of **ten**.

Part - B: Analytical/Problem solving questions 3×5 marks = 15 marks.
Candidates have to answer **three** questions out of **seven**.

Part - C: Descriptive/Analytical/Problem Solving questions 2×20 marks = 40 marks.
Candidates have to answer **two** questions out of **five**.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination.
(Mentioned in form No. 205)

1. NIL

2. NIL

PART - A

Q.1 Define compiler.

Q.2 Convert the binary number 11001 to decimal.

Q.3 What is literals?

Q.4 Explain the concept of break statement.

Q.5 What is the use of Enum?

[21N508]

Page 1 of 3

Q.6 Arrange following operators in order of precedence and associativity rules of 'C'

+, %, <, /, *, ==, !, ++, ().

Q.7 What do you mean by streams?

Q.8 Explain firmware.

Q.9 Discuss on ternary operators.

Q.10 Explain storage classes.

PART - B

Q.1 Explain High level, Assembly and Low level language.

Q.2 Write a 'C' program to allocate memory dynamically to an Integer array.

Q.3 What is function? Explain call by value and call by reference with suitable example.

Q.4 Write 'C' statement for passing a structure to a function defined in another source file.

Q.5 Write a program in 'C' to read character one by one and display it back.

Q.6 What are data types in 'C'? Explain with examples.

Q.7 Write a program in 'C' to read contents of a file and display them in upper case.

PART - C

Q.1 Convert following.

i. $(651.24)_8 = (?)_2$

ii. $(10110001101)_2 = (?)_{10}$

iii. $(9896)_{10} = (?)_{16}$

iv. $(5676)_{10} = (?)_8$

v. $(1010.267)_8 = (?)_2$

Q.2 What are the various operators in C? Discuss each of them with suitable illustration.

Q.3 Explain Array of structure with the help of suitable program also describe structure within structure with an example.

Q.4 Write a program to pass matrix as an argument to a function and display the matrix in the function.

Q.5 What is file? Why do we need to store data in files? Write short note on the following functions, give a program code that demonstrate its usage.

- (a). fopen()
 - (b). fclose()
 - (c). fgetc()
 - (d). fputc()
-

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