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1 (Sem-1) COA

2024

COMPUTER APPLICATION

Paper : COA0100404

(*Fundamentals of Computer Programming*)

Full Marks : 45

Time : 2 hours

***The figures in the margin indicate
full marks for the questions.***

1. Answer the following questions : $1 \times 5 = 5$
- (i) What is pointer ?
 - (ii) What is the use of size of operator ?
 - (iii) What is the full form of 5 Mps ?
 - (iv) Write the 1's complement form of 11001.
 - (v) What is algorithm ?

Contd.

2. Answer **any five** questions from the following : $2 \times 5 = 10$

- (i) What is cache memory and virtual memory ?
- (ii) What is FAT file system ?
- (iii) What is BCD and grey code ?
- (iv) What is compiler ?
- (v) What is L-value and R-value ?
- (vi) Write the use of 'break' and 'continue' statements.
- (vii) What is recursive function ?
- (viii) What is the use of strcmp() and strlen() functions in C ?
- (ix) Mention different storage classes available in C.
- (x) What is the precedence and associativity of operators ?

3. Answer **any four** questions from the following : $5 \times 4 = 20$

- (i) Write about different secondary storage devices used in a computer system.

(ii) Write about the following terms :

- (a) CD-ROM
 - (b) DVD-ROM
 - (c) BIOS
 - (d) Operating System
 - (e) Disk Cleanup
- (iii) (a) Convert the binary number 10010011 into decimal number.
- (b) Convert the decimal number 102753 into binary number.
- (iv) Draw a flowchart to check whether an input number is prime or not.
- (v) What is variable ? Briefly explain scope and lifetime of a variable in C.
- (vi) What is function ? Write different ways to passing parameters to a function in C.
- (vii) What is structure in C ? How is it different from an array in C ? Write a structure to store the information (i.e., roll no, name, age, class) of 50 students.

4. Answer **any one** questions from the following : 10×1=10

- (i) Write about different conditions and iterative statements used in C.
 - (ii) Write about different basic data types used in C. Also write about different operations (i.e., arithmetic, assignment and relations, logical and bitwise) used in C.
 - (iii) Write a program in C to find the summation of all the numbers present in an array of N numbers.
 - (iv) Write a function in C to find the largest of N input numbers.
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