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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 : 1×5=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.
