



BAT-003-003108

Seat No. _____

B. C. A. (Sem. I) (CBCS) Examination

November / December - 2015

**CS-02 : Problem Solving Methodologis &
Programming in C**

(New Course)

Faculty Code : 003

Subject Code : 003108

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Attempt the following : 20

(1) BCPL was developed by _____

(A) Brain Kerninghm (B) Dennis Ritchie

(C) Martin Richards (D) Ken Thompson

(2) _____ is a tool which shows the flow of data by drawing symbols in particular format.

(A) Dry Run (B) Algorithm

(C) Flow Chart (D) Programming

(3) _____ symbol is used in conditional ternary operator to represent true part.

(A) /*.....*/ (B) ?

(C) : (D) //

- (4) _____ function is used to copy string.
- (A) strlen() (B) strcmp()
(C) strrev() (D) strcpy()
- (5) Array is a collection of elements of _____ type under same identifier.
- (A) Different (B) Same
(C) Unique (D) int
- (6) _____ symbol is used to separate structure name with member name.
- (A) ; (semi colon)
(B) : (colon)
(C) . (dot)
(D) *
- (7) In _____ looping statement, the body of loop would execute minimum once.
- (A) break (B) while
(C) for (D) do.....while
- (8) NULL character is represented by _____
- (A) 0 (B) space
(C) null (D) \0



- (9) `main()` contain at least one _____ .
- (A) declaration statement
 - (B) Initialization statement
 - (C) executable statement
 - (D) None of these
- (10) `main()` is a _____
- (A) inbuilt function
 - (B) user define function
 - (C) static function
 - (D) constant function
- (11) Static storage variable's by default value is _____
- (A) Garbej value
 - (B) 1
 - (C) 0
 - (D) NULL
- (12) _____ is not a escape sequence
- (A) `\a`
 - (B) `\b`
 - (C) `\\`
 - (D) `\J`
- (13) String constant always represent in a pair of _____
- (A) double quotes
 - (B) single quotes
 - (C) braces
 - (D) parenthesis



(14) _____ data type occupy 10 bytes in size in memory.

- (A) long int (B) float
(C) long double (D) double

(15) _____ is called multi-branching statement.

- (A) switch (B) for
(C) goto (D) do ... while

(16) fopen() return NULL when _____

- (A) file stream open successfully
(B) file stream close automatic
(C) file stream not open successfully
(D) None of Above

(17) _____ is not keyword in C.

- (A) break (B) if
(C) go to (D) typedef

(18) atol() function belongs to _____ header file

- (A) dos.h (B) stdio.h
(C) ctype.h (D) stdlib.h

(19) `printf("%c",100); return`

- (A) a (B) D
(C) b (D) None of these

(20) _____ is not data type in C.

- (A) void (B) int
(C) long int (D) number

2 (a) Explain the following : (any three)

6

- (1) Explain C character set.
- (2) What is variable ? Why it is useful in programming language ?
- (3) Explain break statement.
- (4) Explain C constants.
- (5) What is Pointer ?
- (6) What is Union ?

(b) Explain the following : (any three)

9

- (1) Explain Dry-run and its usage.
- (2) Explain any three maths function.
- (3) Explain goto label.
- (4) Explain pre-processors directive in C.
- (5) Explain any three date function.
- (6) Explain `modf()`, `exp()`, `isgraph()`

(c) Explain the following : (any two) 10

- (1) Explain basic structure of C application.
- (2) Explain data type supported by C.
- (3) What is Operator ? Explain types of operator supported by C.
- (4) Explain for, while loop with suitable example.
- (5) Explain Storage classes in C.

3 (a) Explain the following (any three) 6

- (1) Explain Hierarchy of operators.
- (2) What is Recursion ?
- (3) What is structure ?
- (4) Explain pointer to pointer.
- (5) Explain type casting.
- (6) Explain fopen() and fclose() function.

(b) Explain the following (any three) 9

- (1) Differentiate & v/s &&
- (2) Differentiate Entry control loop v/s
Exit control loop
- (3) Explain command line argument with example.
- (4) What is algorithm why it is useful ?
- (5) Explain switch case statement.
- (6) Explain goto label.

(c) Explain the following (any two)

10

- (1) Explain nested looping statement with example.
- (2) What is array ? Explain two dimensional array memory management.
- (3) What is pointer ? Why it is useful ? Explain features of pointer.
- (4) Explain pointer to structure with suitable example.
- (5) Explain memory allocation function in detail.