

**SUBJECT : PAPER-104 : COMPUTER PROGRAMMING &  
PROGRAMMING METHODOLOGY**

**FIRST YEAR B.C.A. (SEM. I) EXAMINATION**

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The question Bank will be upload in future for the students

1. Oct/ Nov –2015
2. Oct/ Nov –2016
3. Oct/ Nov –2017
4. Nov/Dec –2018
5. Oct/ Nov –2019
6. Mar / Apr – 2013
7. Mar / Apr – 2014
8. Mar / Apr – 2015
9. Mar / Apr – 2016
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## First Year B.C.A. (Sem. I) Examination

October / November - 2015

### Computer Programming & Programming Methodology: Paper-104

[Time: 3 Hours ]

[ Total Marks: 70 ]

#### Instructions

(1)

<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> First Year B.C.A. (Sem. I)</p> <p>Name of the Subject : <input type="checkbox"/> Comp.Prog.&amp;Prog.Methodology:Paper-104</p> <p>Subject Code No: <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="0"/> <input type="text" value="2"/></p>	<p>Seat No.:</p> <table border="1"><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></table> <p><input type="text"/></p> <p>Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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- (2) All questions are compulsory.
- (3) Figure to the right indicate full marks.
- (4) Mention your options clearly.

#### 1. Answer the following in short: (Any Ten)

10

- 1) Why algorithm is required?
- 2) What is compiler?
- 3) What is variable? Give the rules to create variable name.
- 4) Explain ?: operator.
- 5) What is type casting?
- 6) What is difference between #define and const keyword?
- 7) Give the symbols of drawing flowchart.
- 8) How to create write comment in C?

- 9) What is nested loop?
- 10) What is multi dimensional array?
- 11) Explain getchar() in detail.
- 12) What is error?
- 13) Explain void main().

**2. Explain following questions in detail: (Any Three) 18**

- (1) Write a note on precedence of operator.
- (2) Explain different data type available in C.
- (3) Explain types of error in detail.
- (4) List all categories of operator in C. Explain logical and relational operator in detail.
- (5) Explain GOTO in detail.

**3. Answer the following questions: (Any Three) 18**

- (1) Write a short note on scanf() function.
- (2) Differentiate entry control loop and exit control loop. Explain Do...while in detail.
- (3) Explain conditional statement.
- (4) Explain any five conversion functions in detail with example.
- (5) Write a short note on two dimensional arrays.

**4. Attempt the following questions: (Any Three) 18**

- (1) Write a short note on debugging.
- (2) Differentiate
  - (i) = and ==
  - (ii) Pre increment and post increment.
- (3) Write a short note on basic structure of C program.

- (4) Explain string array in detail.
- (5) Explain strncat(), strcmp(), and strcpy() with example.

**5. Attempt any one: 6**

- (1) Write an algorithm and draw flowchart to check given number is prime or not.
- (2) Write an algorithm and draw flowchart to find the factorial of the given number.

**OR**

**5. Attempt any one: 6**

- (1) Write a program to accept string and then count number of characters and number of words from that.
- (2) Write a program to check whether Number is Palindrome or not.

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## First Year B.C.A. (Sem. I) Examination

October / November - 2016

### Computer Programming & Programming Methodology: Paper-104

[Time: 3 Hours ]

[ Total Marks: 70 ]

<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> <b>First Year B.C.A. (Sem. I)</b></p> <p>Name of the Subject : <input type="checkbox"/> <b>Comp.Prog.&amp;Prog.Methodology:Paper-104</b></p> <p>Subject Code No.: <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="0"/> <input type="text" value="2"/></p>	<p>Seat No.: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><input type="text"/></p> <p>Student's Signature</p>
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#### 1. Answer the following in short: (Any Ten)

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- (1) What is algorithm?
- (2) What is variable?
- (3) What is keyword?
- (4) Explain isalnum() and isdigit().
- (5) What is testing?
- (6) Explain infinite loop.
- (7) Explain break and continue statement.
- (8) How to create write command in C?
- (9) How to write nested condition?
- (10) What is use of NULL in string?
- (11) Explain putchar() in detail.
- (12) What is error?
- (13) Explain multidimensional array.

- 2. Explain following questions in detail: (Any Three) 18**
- (1) Write a short note on flow chart.
  - (2) Write a short note on structured programming.
  - (3) Explain constant in detail.
  - (4) What is operator? List all categories of operator in C. Explain any two from them.
  - (5) Explain storage class.
- 3. Explain the following questions: (Any Three) 18**
- (1) Explain getchar(), gets() and getch() function with example.
  - (2) Explain entry control loop in detail.
  - (3) Explain if conditional statement in detail.
  - (4) Explain any five string functions in detail with example.
  - (5) What is array? Write a short note on one dimensional array.
- 4. Answer the following questions: (Any Three) 18**
- (1) Explain types of error.
  - (2) Differentiate:
    - (i) While and do...while
    - (ii) Forward and backward jump
  - (3) Write a short note on basic structure of C program.
  - (4) Explain string array in detail.
  - (5) Explain enum data type in detail.
- 5. Attempt any one: 6**
- (1) Write an algorithm and draw flowchart to display first n odd numbers.
  - (2) Write a program to accept a string print them in reverse.
  - (3) Write an algorithm and draw flowchart to count total number of odd and even element form one dimensional array of size 10.

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## First Year B.C.A. (Sem. I) Examination

October / November - 2017

### Computer Programming & Programming Methodology: Paper-104 (Old & New Course)

[Time: 3 Hours ]

[ Total Marks: 70 ]

<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> <b>First Year B.C.A. (Sem. I)</b></p> <p>Name of the Subject : <input type="checkbox"/> <b>Comp.Prog.&amp;Prog.Methodology:Paper-101(Old&amp;New)</b></p> <p>Subject Code No: <input type="text" value="3"/> <input type="text" value="5"/> <input type="text" value="0"/> <input type="text" value="1"/></p>	<p>Seat No.:</p> <table border="1"><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></table> <p><input type="text"/></p> <p>Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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#### 1. Answer the following in short: (Any Ten)

10

- (1) Define error.
- (2) What is -- operator.
- (3) Explain #define preprocessor directives.
- (4) Explain putchar() function.
- (5) What is variable?
- (6) What is keyword?
- (7) Explain ceil() function.
- (8) What is multi dimensional array?
- (9) How to write comment in C?
- (10) What is use of break statement?
- (11) Explain assignment operator.
- (12) What is use of main() in C program?

- 2. Explain following questions in detail: (Any Three) 18**
- (1) Write a short note on structured programming.
  - (2) Explain C constant in detail.
  - (3) Explain any two types of operators in detail.
  - (4) Explain conversion function in detail.
  - (5) Write a short note on debugging.
- 3. Explain the following questions: (Any Two) 14**
- (1) Explain for loop in detail with example.
  - (2) Explain if conditional statement with example.
  - (3) Explain formatted input and output in detail.
- 4. Write a short note on following: (Any Three) 18**
- (1) Array
  - (2) Data types
  - (3) Do...while loop
  - (4) Storage classes
- 5. Do as directed: 5+5**
- (1) Write an algorithm to calculate sum of all even elements from one dimensional array of size 10.
- OR**
- (1) Write an algorithm to check whether the inputted string is palindrome or not.
  - (2) Differentiate between following: (Any One)
    - (i) Break and continue.
    - (ii) getch() and getchar().

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## First Year B.C.A. (Sem. I) Examination

November / December - 2018

### Computer Programming & Programming Methodology: Paper-104

[Time: 3 Hours ]

[ Total Marks: 70 ]

<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> <b>First Year B.C.A. (Sem. I)</b></p> <p>Name of the Subject : <input type="checkbox"/> <b>Comp.Prog.&amp;Prog.Methodology:Paper-104</b></p> <p>Subject Code No.: <input type="text" value="3"/> <input type="text" value="5"/> <input type="text" value="0"/> <input type="text" value="1"/></p>	<p>Seat No.: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><input type="text"/></p> <p>Student's Signature</p>
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#### 1. Answer the following in short: (Any Ten)

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- (1) What is multi dimensional array?
- (2) What is infinite loop?
- (3) Explain strcmp() function.
- (4) How to write comment in C?
- (5) Explain type casting.
- (6) What is Keyword?
- (7) What is difference between = and == ?
- (8) Discuss #include.
- (9) Explain pre decrement and post decrement operator in brief.
- (10) What is use of void main() function in C programming?
- (11) What is expression? How to evaluate it?
- (12) What is interpreter?

- 2. Explain following questions in detail: (Any Three) 18**
- (1) Explain constant in detail.
  - (2) Discuss in detail basic structure of C programming.
  - (3) Write a short note on formatted input output.
  - (4) Explain enum in detail with example.
- 3. Explain the following questions: (Any Two) 14**
- (1) What is exit control loop? Explain Do...while loop in detail with example.
  - (2) Explain forward and backward jump using goto.
  - (3) What is an array? Write a short note on one dimensional array.
- 4. Write a short note on following: (Any Three) 18**
- (1) Structured programming
  - (2) Mathematical functions
  - (3) Switch...case
  - (4) Algorithm
- 5. Do as directed: (Any Two) 10**
- (1) Draw a flow chart to check whether inputted number is even or odd.
  - (2) Write an algorithm to sort 10 elements of integer in ascending order.
  - (3) Differentiate between for loop and while loop.

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## First Year B.C.A. (Sem. I) Examination

October / November - 2019

### Computer Programming & Programming Methodology: Paper-104

[Time: 3 Hours ]

[ Total Marks: 70 ]

#### Instructions

(1)

Fill up strictly the details of signs on your answer book

Name of the Examination:

First Year B.C.A. (Sem. I)

Name of the Subject :

Comp.Prog.&Prog.Methodology: Paper-104

Subject Code No.: 1811000101040001

Seat No.:

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Student's Signature

- (2) All questions are compulsory.
- (3) Figure to the right indicate full marks.
- (4) Mention your options clearly.
- (5) Question 1 is MCQ type, Mention question number and appropriate answer in answer book. Choose only one option.

#### 1. Do as directed: (Any Ten)

10

(1) All keywords in C are

- |              |              |
|--------------|--------------|
| A. Uppercase | B. Lowercase |
| C. Italic    | D. None      |

(2) Which operator has got highest precedence among \* and +

- |         |                  |
|---------|------------------|
| A. +    | B. *             |
| C. Same | D. None of these |

- (3) Default return type of main() is
- A. void
  - B. int
  - C. float
  - D. char
- (4) String terminates with?
- A. “\n”
  - B. “\0”
  - C. ‘\0’
  - D. ‘\n’
- (5) Array is a collection of \_\_\_\_\_
- A. char
  - B. Same data type
  - C. Different data type
  - D. string
- (6) Which loop executes even if the condition is false?
- A. for
  - B. while
  - C. do-while
  - D. if
- (7) Which of the following is not a type of mathematical function?
- A. pow()
  - B. ceil()
  - C. modulus()
  - D. sqrt()
- (8) What will be value of x if  $x=(a>b)?a:b$  when  $a=10$  and  $b=20$
- A. 10
  - B. -10
  - C. 20
  - D. 0
- (9) Choose the odd one out?
- A. putchar()
  - B. puts()
  - C. gets()
  - D. putch()
- (10) To find first occurrence of the substring in the second string?
- A. strcpy()
  - B. strstr()
  - C. strcmp()
  - D. strlen()
- (11) Which of the following is not a compound assignment operator?
- A. +=
  - B. %=
  - C. \*=
  - D. ==

- 2. Explain following questions in detail: (Any Three) 18**
- (1) Explain compiler and interpreter in detail.
  - (2) Explain C constants in detail
  - (3) Explain sequence, selection and repetition control structure in detail.
  - (4) Explain basic structure of C program.
  - (5) Write a short note on unary operator with an example of each.
- 3. Answer the following questions: (Any Three) 18**
- (1) Explain printf(), putchar(), puts() and putchar() function in detail with example.
  - (2) Explain C expression in detail.
  - (3) What is loop? Explain the difference between while loop and do-while loop in detail with example.
  - (4) What is an array? Explain string array in detail.
- 4. Write a short note on following: (Any Three) 18**
- (1) Data types in C
  - (2) Advantages and Disadvantages of flowchart
  - (3) sqrt(), abs(), ceil(), pow() function
  - (4) if, if-else, nested if statement
- 5. Attempt the following: (Any One) 6**
- (1) Write an algorithm and draw flowchart of Fibonacci series.  
E.g. 1 1 2 3 5 8 13...
  - (2) Write an algorithm and draw flowchart to add even numbers between 1 to 10.  
E.g. sum=2+4+6+8
- OR**
- 5. Differentiate between following: (Any Two) 6**
- (1) Testing and debugging
  - (2) = and ==
  - (3) forward jumping and backward jumping

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## First Year B.C.A. (Sem. I) (CBCS) Examination

March / April – 2013

### Computer Programming & Programming Methodology: Paper-104 (Old & New Course)

[Time: 3 Hours ]

[ Total Marks: 70 ]

#### Instructions

(1)

Fill up strictly the details of signs on your answer book

Name of the Examination:

First Year B.C.A. (Sem. I) (CBCS)

Name of the Subject :

Comp.Prog.&Prog.Methodology:Paper-104(Old&New)

Subject Code No:

Seat No.:

Student's Signature

(2) Figure on right indicate marks.

(3) Do not interchange option.

#### 1. Answer the following in short: (Any Ten)

10

- (1) What is the use of LET statement?
- (2) Give size and range of integer datatype.
- (3) Which operator is used for string concatenation.
- (4) What is the difference between ; and , used with INPUT statement.
- (5) What is the use of LOCATE statement?
- (6) What is the use of REM statement?
- (7) Can we give negative subscript? Give reason.
- (8) What do you mean by syntax error?

- (9) What is logical expression?  
(10) What is the meaning of word 'Testing'?  
(11) What is the function of GOTO?  
(12) What is the use of SGN( ) function?

2. (a) Differentiate the following: (Any Two) 4

- (i) Compiler Vs Interpreter
- (ii) Algorithm Vs Flowchart
- (iii) Variable Vs Constant

(b) Consider the following code. Give error (if any) otherwise give output. 4

(i) 10 A = 73.6625  
20 B = 7.35  
30 D = 7869.663  
40 PRINT USING "#.# #", A, B  
50 PRINT USING "+#.# #", D

(ii) X = 1  
Y = 1  
IF  $\cap > 0$  THEN X = x+1  
Y = x+1  
PRINT X, Y

(c) Explain about different types of operators. 7

**OR**

(c) Explain SELECT....CASE statement with example. 7

2

**3. Explain in detail following questions: 15**

(1) Explain structure programming with example.

**OR**

(1) Explain different data types available in QBASIC.

(2) Explain FOR LOOP in QBASIC.

**OR**

(2) Explain PRINT and PRINT using statement.

(3) Explain about types of Errors in QBASIC.

**4. (a) Write an algorithm and draw flowchart to print given number in reverse order. 5**

**OR**

(a) Write an algorithm and draw flow chart to print sum of digits of given number. 5

(b) Explain about READ...DATA. Also explain RESTORE. 5

**OR**

(b) Explain sorting with example. 5

(c) Differentiate between for LOOP and while LOOP. 5

**5. Answer the following: (Any Three) 15**

(1) Write short note on jumping statement.

(2) Explain the following with example:

(i) DATE\$

(ii) EXP

(iii) MID\$

(iv) UCASE\$

(v) LTRIM\$()

(3) Explain single scripted variable with example.

(4) Explain about IF.....ELSEIF.

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## First Year B.C.A. (Sem. I) (CBCS) Examination

March / April – 2014

### Computer Programming & Programming Methodology: Paper-104

[Time: 3 Hours ]

[ Total Marks: 70 ]

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#### 1. Answer the following in short: (Any Ten)

10

- (1) What is computer program?
- (2) What is keyword? List any five keywords of QBASIC.
- (3) What is the function of LET statement?
- (4) How , and ; differs from each other in PRINT?
- (5) Explain INT() function.
- (6) What is Interpreter?
- (7) What are the benefits of drawing flowchart?
- (8) What are the major categories of numeric constant in BASIC?
- (9) What is an infinite loop? Give example.
- (10) What is the purpose of REDIM statement in BASIC?
- (11) Why array is used?
- (12) What is syntax error?
- (13) Explain restore statement.

**2. Explain following questions in detail: (Any Three) 15**

- (1) Explain different level of programming language.
- (2) Explain different data type available in QBASIC.
- (3) Explain operators available in QBASIC.
- (4) Explain READ.....DATA and RESTORE.
- (5) Differentiate between forward jumping and backward jumping.

**3. Answer the following questions: (Any Three) 15**

- (1) Write a short note on PRINT USING.
- (2) What is nested loop? Give proper example.
- (3) Explain conditional Statement in detail.
- (4) Explain mathematical functions in detail.
- (5) What do you mean by single scripted variable? Explain in detail.

**4. (a) What is Searching? Explain Sequential Search method with an Example. 6**

**OR**

- (a) Write a short note on Debugging. 6
- (b) Explain exit Control Loop Detail. 6
- (c) Write an algorithm and draw flowchart to find the factorial of the given number. 6

**OR**

- (c) Write the algorithm and draw flowchart to check whether a number is Armstrong number or not. 6

5. (a) State the output of following:

4

(i) A\$="VNSGU"

Print mid\$(a\$,4)

(ii) N=1234

Print len(str\$(N))

(iii) S\$="CPPM"

Print Left\$(S\$,2.5)

(iv) Dim b(2)

b(1)=10

b(2)=5

Print b(10/5)+b(5/5)+5

(b) Write the basic notation for the following:

4

(i)  $X+Y/Z-L(A-B)D^2$

(ii)  $Y=4AB+C^2/(B+C)^2$

(c) Differentiate between the following: (Any Two)

4

(i) IF and SELECT.....CASE

(ii) Variable and Constant

(iii) Logical V/s Relational expression.

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## First Year B.C.A. (Sem. I) (CBCS) Examination

March / April – 2015

### Computer Programming & Programming Methodology: Paper-104 (New Course)

[Time: 3 Hours ]

[ Total Marks: 70 ]

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#### 1. Answer the following in short: (Any Seven)

14

- (1) What is difference between variable and constant?
- (2) What is type casting?
- (3) If  $a = 5$ , then determine the value of  $m$  and  $a$  for the following expression:  
$$m = ++ a * 5;$$
- (4) State the output produce by the following printf statement `printf("%d \t %4.2f,1234,456);`
- (5) How can we use `putchar()` functions to output multi character string?
- (6) What is difference between `break` and `continue`?
- (7) Which of the following cannot be checked in switch case statement?  
(i) character (ii) integer (iii) float (iv) enum.
- (8) What is infinite loop? Give example.
- (9) What is debugging?
- (10) What do you mean by relational expression? Give example.

2. (a) What is flowchart? Explain it in details. Also explain benefits and limitations of drawing flowchart. 6

(b) Explain structured programming with example. 6

**OR**

(b) Explain different types of errors. 6

3. **Attempt any two:** 14

(a) Explain switch...case with example. Also explain use of default and break in switch...case statement.

(b) What is the difference between entry control loop and exit control loop? Explain exit control loop in detail with example.

(c) Explain one dimensional array in detail.

4. (a) Explain string functions in detail. 6

(b) Write a short on data type available in C. 6

**OR**

(b) Write a short note on operators of C. 6

5. **Do as directed:** 18

(a) Write an algorithm to check whether given number is even or odd. 6

(b) Write a program in C to accept a string and check whether the given string is palindrome or not. 6

**OR**

(b) Write a program in C to sort an array in descending order.

(c) Find out errors (if any), otherwise write output of the following code:

6

(i) void main()

```
{  
    int m=1;  
    if (m==1)  
    {  
        printf("Delhi");  
        if (m==2)  
        {  
            printf("Chennai");  
        }  
        else  
        printf("Bangalore");  
    }  
    else ;  
        printf("End");  
}
```

(ii) char s1[]="New Delhi";

char s2[]="Bangalore"

strncpy(s1,s2,3);

printf("%s",s1);

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## First Year B.C.A. (Sem. I) Examination

March / April – 2016

### Computer Programming & Programming Methodology: Paper-104

[Time: 3 Hours ]

[ Total Marks: 70 ]

#### Instructions

<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> <b>First Year B.C.A. (Sem. I)</b></p> <p>Name of the Subject : <input type="checkbox"/> <b>Comp.Prog.&amp;Prog.Methodology:Paper-104</b></p> <p>Subject Code No: <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="0"/> <input type="text" value="2"/></p>	<p>Seat No.:</p> <table border="1"><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></table> <p><input type="text"/></p> <p>Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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#### 1. Answer the following in short: (Any Ten)

10

- (1) Give the advantage of flowchart.
- (2) What is difference between compiler and interpreter?
- (3) What is keyword?
- (4) Explain : Operator.
- (5) What is type casting?
- (6) Explain infinite loop.
- (7) Explain continue statement.
- (8) How to create write comment in C?
- (9) What is nested loop?
- (10) What is use of NULL in string?
- (11) Explain putchar() in detail.
- (12) What is error?
- (13) Explain #include.

**2. Explain following questions in detail: (Any Three) 18**

- (1) Explain types of error in detail.
- (2) Write a short note on data types.
- (3) Write a short note on debugging.
- (4) List all categories of operator in C. Explain assignment and relational operator in detail.
- (5) Explain Jumping statement in detail.

**3. Explain the following questions: (Any Three) 18**

- (1) Write a short note on scanf() and printf() function.
- (2) Differentiate entry control loop and exit control loop. Explain for loop in detail.
- (3) Explain switch case.
- (4) Explain any five string functions in detail with examples.
- (5) Write a short note on arrays.

**4. Attend the following questions: (Any Three) 18**

- (1) Explain If conditional statement in detail.
- (2) Differentiate
  - (i) = and ==
  - (ii) Pre decrement and post decrement.
- (3) Write a short note on basic structure of C program.
- (4) Explain string array in detail.
- (5) What is constant? How to create constant in C? What is difference between constant and variable?





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**5. Attempt any one:**

**6**

- (1) Write an algorithm and draw flowchart to check given number is Armstrong or not.
- (2) Write an algorithm and draw flowchart of Fibonacci series.

**OR**

**5. Attempt any one:**

**6**

- (1) Write a program to accept string and one character. Count the occurrence in character in a given string.
- (2) Write a program to reverse a number.

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# Jump2Learn

## First Year B.C.A. (Sem. I) Examination

March / April – 2017

### Computer Programming & Programming Methodology: Paper-104

[Time: 3 Hours ]

[ Total Marks: 70 ]

<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> <b>First Year B.C.A. (Sem. I)</b></p> <p>Name of the Subject : <input type="checkbox"/> <b>Comp.Prog.&amp;Prog.Methodology:Paper-104</b></p> <p>Subject Code No.: <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="0"/> <input type="text" value="2"/></p>	<p>Seat No.: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><input type="text"/></p> <p>Student's Signature</p>
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#### 1. Answer the following in short: (Any Ten)

10

- (1) What is Flow chart?
- (2) Explain in brief interpreter.
- (3) What is variable?
- (4) Explain ?: conditional operator.
- (5) What is nested loop?
- (6) What is use of abs(), and sqrt() function.
- (7) What is use of void main() in C program?
- (8) How to write comment line in C?
- (9) Explain #include preprocessor directives.
- (10) What is multi dimensional array?
- (11) Explain getchar() function in detail.
- (12) What is Debugging?
- (13) Explain Keyword.

- 2. Explain following questions in detail: (Any Three) 18**
- (1) Explain algorithm in detail.
  - (2) Explain Structured programming.
  - (3) Explain storage class.
  - (4) Write a short note on data type of C.
  - (5) Explain constant in detail with example.
- 3. Explain the following questions: (Any Three) 18**
- (1) What is operator? Explain any three types of operator.
  - (2) Explain if statement in detail with example.
  - (3) What is loop? Why it is required? Explain for loop in detail with example.
  - (4) Explain break and continue statement.
  - (5) Define Array. Explain one dimensional array in detail with example.
- 4. Attend the following questions: (Any Three) 18**
- (1) Write a short note on types of error.
  - (2) Differentiate :
    - (i) While loop and Do..while loop
    - (ii) ++a and a++ (Pre and Post increment operator).
  - (3) Write a short note on basic structure of C program.
  - (4) Explain printf() and scanf() in detail.
  - (5) Explain string function in detail.
- 5. Attempt any one: 6**
- (1) Write an algorithm and draw flowchart to find the factorial of the given number.
  - (2) Write an algorithm and draw flowchart to find maximum element from one dimensional array of size 10.
  - (3) Write a program to accept string and then check whether the inputted string is palindrome or not.

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## First Year B.C.A. (Sem. I) Examination

March / April – 2018

### Computer Programming & Programming Methodology: Paper-104 (Old & New Course)

[Time: 3 Hours ]

[ Total Marks: 70 ]

<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> <b>First Year B.C.A. (Sem. I)</b></p> <p>Name of the Subject : <input type="checkbox"/> <b>Comp.Prog.&amp;Prog.Methodology:Paper-104(Old&amp;New)</b></p> <p>Subject Code No: <input type="text" value="3"/> <input type="text" value="5"/> <input type="text" value="0"/> <input type="text" value="1"/></p>	<p>Seat No.:</p> <table border="1"><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></table> <p><input type="text"/></p> <p>Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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#### 1. Answer the following in short: (Any Ten)

10

- (1) Explain debugging.
- (2) Explain ?: Operator.
- (3) Explain #include preprocessor directives.
- (4) What is puts() function.
- (5) What is constant?
- (6) What is infinite loop.
- (7) Explain floor() function.
- (8) Explain break statement.
- (9) What is string?
- (10) What is identifier? Give the rules to create identifier.
- (11) Explain ++ operator.
- (12) What is keyword?

**2. Explain following questions in detail: (Any Three) 18**

- (1) Explain flowchart in detail with its advantages and disadvantages.
- (2) Write short notes on data types of C.
- (3) What is variable? How to create and initialize variable? What is difference between variable and constant?
- (4) Explain gets(), getchar(), and getch() in detail with example.
- (5) Explain forward and backward jump in detail.

**3. Explain the following questions: (Any Two) 14**

- (1) Explain Exit Control loop in detail with example.
- (2) Explain if conditional statement with example.
- (3) Explain mathematical functions in detail.

**4. Write a short note on following: (Any Three) 18**

- (1) Two dimensional Array
- (2) Types of errors.
- (3) Operator.
- (4) Storage classes.

**5. Do as directed: 5+5**

- (1) Write an algorithm to find maximum elements from one dimensional array of size 10.

OR

- (1) Write an algorithm to count an occurrence of accepted character from string.
- (2) Differentiate between following: (Any One)
  - (i) Compiler and interpreter.
  - (ii) Pre decrement and post decrement operator.

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## First Year B.C.A. (Sem. I) Examination

March / April – 2019

### Computer Programming & Programming Methodology: Paper-104

[Time: 3 Hours ]

[ Total Marks: 70 ]

#### Instructions

(1)

<p>Fill up strictly the details of signs on your answer book</p> <p>Name of the Examination: <input type="checkbox"/> First Year B.C.A. (Sem. I)</p> <p>Name of the Subject : <input type="checkbox"/> Comp.Prog.&amp;Prog.Methodology: Paper-104</p> <p>Subject Code No.: <input type="text" value="1811000101040001"/></p>	<p>Seat No.:</p> <table border="1"><tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr></table> <p><input type="text"/></p> <p>Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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#### 1. Answer the following in short: (Any Ten)

10

- (1) What is variable?
- (2) What is difference between compiler and interpreter?
- (3) Define term algorithm.
- (4) Explain ?: operator in brief.
- (5) What is use of getch() function in C programming?
- (6) Explain continue statement.
- (7) What is difference between ++a and a++?
- (8) What is array?
- (9) What is nested loop?
- (10) What is use of null in string array?
- (11) Explain Pow() function.
- (12) C is structured programming language-Justify.

**2. Explain following questions in detail: (Any Three) 18**

- (1) Discuss various C data type in detail.
- (2) What is constant? How to create constant in C? Explain in detail.
- (3) What is operator? Explain relational and logical operator in detail.
- (4) Explain string function.

**3. Explain the following questions: (Any Two) 14**

- (1) Discuss if conditional statement in detail with example.
- (2) Explain entry control loop with example.
- (3) Explain two dimensional arrays in detail.

**4. Write a short note on following: (Any Three) 18**

- (1) Flowchart
- (2) Debugging
- (3) Formatted input and output
- (4) Switch statement

**5. Do as directed: (Any Two) 10**

- (1) Write an algorithm to check whether inputted number is positive or negative.
- (2) Write an algorithm to display 1 to n even number.
- (3) Distinguish between Forward jump and Backward jump.

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