

# BCA (Part I) Examination, 2013

## Management And Accounting

**Note:** Attempt any five questions out of ten questions. All questions carry equal marks.

### Part - A

1. Define Management.
2. Define Planning.
3. Define Leadership.
4. Define Motivation.
5. Define Communication.
6. Define Conflict Management.
7. Define Stress Management.
8. Define Final Accounts.
9. Define Margin of Safety.
10. Define Gross Profit Ratio.

### Part - B

1. Explain the theories of Motivation.
2. Describe the different theories of Leadership.
3. Define Electronic media in Communication.
4. Write four functions of Planning.
5. Power of Politics.

### Part - C

1. Planning is a bridge between the present and the future. It has been called the important management function. Explain.

**OR**

Describe the special skills which a manager use for performing their task.

2. What is the role of information technology in communication?

**OR**

In the trial Balance of trader, the debtors are Rs. 80,000. Provision for bad and doubtful debts on debtors is at 5% and provision for discount on debtors is at 3%. Calculate the amount of provision for discount on debtors.

3. What is inter-personal conflict? What are the general conflict management techniques?

**OR**

In 2009 the position of Shri Shubham Ltd. was as follows:

	<b>Rs.</b>
Sales	1,20,000
Variable Overheads	96,000
Gross Profit	24,000
Fixed Overheads	16,000
Net-Profit	8,000

***Find out:***

- a) BEP in units and in Rs.
- b) Margin of safety.

# BCA (Part I) Examination, 2013

## Computer Fundamentals

**Note:** Attempt any five questions out of ten questions. All questions carry equal marks.

### Part - A

1. Give the full form of the following abbreviation:  
ASCII, SVGA
2. What is PDA?
3. What is system software?
4. What is BIOS?
5. What is Hybrid Computer?
6. What is TCP?
7. What do you mean by boot sector virus?
8. What is flash memory?
9. What is logic gate? Draw the logic diagram of XOR gate.
10. What is e-mail?

### Part - B

1. What is joystick? Give some typical uses of joystick?
2. What is gray code? Explain with suitable example.
3. Differentiate among a bit, a nibble, a byte and a word.
4. What is virtual reality?
5. Convert the following numbers:  
 $(2A3B)_{16} = ( )_{10}$   
 $(249)_{10} = ( )_4$

**Part - C**

- 1(a) Draw the block diagram of a computer. Explain the function of each of the blocks. Define the classification of computer.
- (b) Describe and differentiate RAM, ROM, PROM and EPROM.

**OR**

- (a) What do you mean by hard copy output devices? Explain the types of printers.
- 2.(a) How does virus spread? Discuss about the most likely routes by which virus get into computer system.
- (b) Write short note on:  
(i) CRT  
(ii) LCD  
(iii) Project display

**OR**

- (a) Hardware is a one time expense whereas software is a continuing expense. Why?
- (b) Write the definition of data warehouse. Also explain their components.
- 3(a) What is meant by Internet surfing? Name some of the commonly used surfing tools.
- (b) What is web browser? Explain the various tools of web browsers.

**OR**

- (a) What do you mean by logic gate? Explain any five logic gate with truth table and logic diagram.

# BCA (Part I) Examination, 2013

## PC Software

**Note:** Attempt any five questions out of ten questions. All questions carry equal marks.

### Part - A

1. What is title bar in MS-Windows?
2. Write extension of excel file, access, Power Point, Word.
3. How can set size of recycle bin?
4. Differentiate between CUI and GUI.
5. What do you mean by user interface?
6. What is the use of run command.
7. Explain the "Paste special".
8. What is Clip-Board?
9. What do you understand by word-wrap?
10. Differentiate Auto correct and AutoText.

### Part - B

1. How can you show the hidden files and folders in window explorer?
2. Explain standard tool-bar in MS Word.
3. How create queries in MS Access.
4. Explain features of Goal Seek.
5. Explain type of view in MS Power Point.

**Part - C**

1. Explain about control panel. Also explain its components. How new software is installed in new computer?

**OR**

Describe the concept of GUI. Explain the function of accessories. Explain calculator, notepad and WordPad programs of windows. How can we create a New Dialup account?

2. Write short note on
  - a) Rehearsal timing
  - b) Animation
  - c) Handout
  - d) Slide Sorter view
  - e) Action Button
  - f) Book Mark
  - g) Footnote

**OR**

Explain mail-merge features. Explain step to create a mail-merge document.

3. What is relationship in MS-Access? How many types of relationship we can create in MS-Access? Also explain import and link table function in MS-Access.

**OR**

Explain how an organization chart can be inserted into a slide in MS Excel. Give the steps, and describe OLE in MS-Excel.

# BCA (Part I) Examination, 2013

## Fundamentals of 'C' Programming

**Note:** Attempt any five questions out of ten questions. All questions carry equal marks.

### Part - A

1. What will be the output of the following code  

```
int x = 40000;  
printf("%d", x);
```
2. Arrange following operators in ascending order according to their precedence  
(a) &&  
(b) ||  
(c) !  
(d) ? :  
(e) &(bitwise and)
3. What will be the output of following code:  

```
for(i=1,j=10; i<6; ++i,j--)  
    printf("%d %d", i, j);
```
4. What is the meaning of:  

```
int (*p)[10];
```
5. What is the meaning of :  

```
int * P[10];
```
6. Find errors (if any) and remove them otherwise give output of the following:  

```
char C = 'A';  
int x = 10,y;  
y = x + c;  
putchar(y);
```
7. Find errors and remove them (if any) otherwise give output of the following  

```
printf("%d", ++5);
```
8. Find errors and remove them (if any) otherwise give output of the following  

```
printf["%d", sizeof(")];
```
9. What will be the output of following code:  

```
int x = 10, y = 20;  
(x>y)? ++x : ++y  
printf("\n x=%d, y= %d", x, y);
```
10. If student structure is given as:

```
struct students
{
    char name[10];
    int E;
    int H;
    int M;
}*pstu;
then allocate memory to pstu pointer,
```

### Part - B

1. Write a program to swap two numbers without using any temporary variable.
2. Explain typedef with suitable example.
3. What is union? Explain it.
4. Write a program in C to find L.C.M of two numbers.

5. `char *name= "M.D.S University";`

then what will be the value of `*(name+18)` and what will be the output if we write `printf("%s", name+8);`

### Part - C

- 1(a) Explain various types of operators with suitable example.
- (b) Compare various operators according to their precedence and also explain their associativity.

**OR**

Write a program in C to print following series  
1, 8, 72, 46, 521, . . . upto n terms

2. Write short note on following with suitable example.
  - i. auto
  - ii. extern
  - iii. static
  - iv. register

**OR**

- (a) Write a program to calculate 2D matrix multiplication.
  - (b) Write a program to print transpose of matrix.
- 3(a) Write a program in C to solve tower of Hanoi game problem.

(b) Explain the tower of Hanoi game with solution for four rings.

**OR**

(a) Explain various types of branching statements of C with suitable example.

(b) Explain various types of looping statements of C with suitable example.

# BCA (Part I) Examination, 2013

## Data Structure & Algorithm

**Note:** Attempt any five questions out of ten questions. All questions carry equal marks.

### Part - A

1. Define data structure.
2. What is complexity of algorithm?
3. Define a link list with diagram.
4. What is binary tree?
5. What is the pre-condition of binary searching?
6. What is recursion?
7. What is the difference between static and dynamic memory allocation?
8. What is the difference between internal and external sorting?
9. What is static and dynamic memory allocation?
10. Define a D-queue with suitable diagram.

### Part - B

1. Difference between composite and primitive data types.
2. Write an algorithm for array insertion and deletion,
3. What is graph? Define all types of graph with diagram.
4. Define DFS with example.
5. Difference between LIFO and FIFO.

### Part - C

1. Define Prism algorithm with suitable example.

**OR**

Define in-order, pre-order and post-order traversal in binary tree with suitable example.

2. Explain hashing technique.

**OR**

Write short notes on:

(a) Insertion sort

(b) Selection sort

(c) Quick sort

3. What do you understand by file organization? Differentiate between sequential and index sequential file organization.

**OR**

Convert infix notation to postfix notation

$A * (B + C) - D / E ^ (F * G) / H$

# BCA (Part I) Examination, 2013

## Multimedia Basic

**Note:** Attempt any five questions out of ten questions. All questions carry equal marks.

### Part - A

1. What is hyperlink?
2. Explain the use of <IMG> tag and various attributes used with it.
3. Name any two packages that are used for creating multimedia application.
4. What is the use of <frameset> tag?
5. Write the tag used to scroll your name on a browser.
6. Write any two tags that are included in HTML 5.
7. What is MPEG?
8. Why audio and video are compressed?
9. Explain CSS syntax with example.
10. Write full form of WHATWG.

### Part - B

1. What is multimedia? Describe advantages of multimedia.
2. Create a web page, showing an ordered list of courses offered by your university.
3. Describe syntax for creating Cascading Style Sheets.
4. Write a short note on image capturing.
5. What is Kiosk?

### Part - C

- 1(a) Write short note on DVI technology and its advantages.
- 1(b) How animated gif files are created. Create a web page giving following details as shown.

Train Number	Timings	
	Arrival	Departure
1001DW	10.00	10.30
1002UP	11.00	11.15

- 2 Write short notes on:
- (a) HTTP live streaming.
  - (b) Virtual reality operating system.

**OR**

Create a form in HTML to input information as shown below:

Details of the student

---

Name of Student :

Enter Marks :

Subject 1 :

Subject 2 :

3. Describe in detail the applications of multimedia.

**OR**

Write HTML code and insert an image in the center of the page in such a way that the image will not scroll with the page.