



B.C.A. (Part I) Examination, 2011  
**MANAGEMENT AND ACCOUNTING**  
(BCA-01)

Time allowed: Three Hours

Maximum Marks: 50

**Part – A (Compulsory) (Marks: 10)**

Answer all ten questions (20 words each).

Each question carries equal marks.

**Part – B (Compulsory) (Marks: 10)**

Answer all five questions (50 words each).

Each question carries equal marks.

**Part – C (Marks: 30)**

Answer all three questions (400 words each).

Each question carries 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 and Politics.

**Part – C**

- a) 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 uses for performing their task.

- b) What is the role of information technology in communication ?

**OR**

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

- c) In 2009 the position of Shri Shubham Ltd. Was as follows:

Sales	1,20,000
Variable Overheads	96,000
Gross Profit	24,000
Fixed Overheads	16,000
Net Profit	8,000

Find Out:

1. BEP in units and in Rs.
2. Margin of safety.

**OR**

What are interpersonal conflicts? What are the general conflict management techniques?

- d) Write the following data for 60% activity, prepare a flexible budget for production of 80% and 100% activity:

Production at 60% activity	600 units
Material	Rs. 100 per unit
Labour	Rs. 40 per unit
Expenses	Rs. 10 per unit
Factory Expenses	Rs. 40,000 (40% Fixed)
Administration Expenses	Rs. 30,000 (60% Fixed)

**OR**

Write short notes on any two:

- a) Fixed Budget
- b) Flexible Budget
- c) Accounting Concepts

B.C.A. (Part I) Examination, 2011  
**COMPUTER FUNDAMENTALS**  
(BCA-02)

Time allowed: Three Hours  
Maximum Marks: 50

**Part – A (Compulsory) (Marks: 10)**  
Answer all ten questions (20 words each).  
Each question carries equal marks.

**Part – B (Compulsory) (Marks: 10)**  
Answer all five questions (50 words each).  
Each question carries equal marks.

**Part – C (Marks: 30)**  
Answer all three questions (400 words each).  
Each question carries equal marks.

**Part – A**

1. Write a name of computer which was made in first generation computer.
2. Write an example of Analog computer.
3. Write an example of Hybrid computer.
4. Which liquid is used in touch-sensitive screen monitor?
5. Write difference between Dot matrix printer and line printer.
6. What is the difference between Bit and Byte?
7. Find out the octal equivalent of binary number  $(11010)_2$ .
8. How many different characters are possible in EBCDIC code?
9. Why BCD code was extended in the EBCDIC?
10. Write short note on PDA.

**Part – B**

1. Explain Drum Scanner.
2. What is the use of Digitizer ?
3. What is memory address? Describe with an example.
4. Explain how information is recorded on a magnetic tape.
5. “Who is more intelligent – Human being or computer?” Justify your answer.

**Part – C**

1. (a) A computer uses EBCDIC as its internal representations of characters. In which order computer will sort the following string?  
ABC, 123, 245 and ADD  
(b) What is the unit for measuring printer output quality? According to this feature, what are the common classifications of printers?

OR

(a) Why laser printer is more suitable than the inkjet printer? Justify your answer.

(b) Write short note on the following:

(i) Virus

(ii) Touch Pad

2. What is memory hierarchy? Name the general classes of storage media that might make up a memory hierarchy.

OR

What is Data warehouse? Write the different methods using for storing data in data warehouse.

3. (a) Write the definition of internet with example. Also write history, advantage and disadvantage of internet.

(b) Simplify the following Boolean expression and draw logic circuit diagram for your simplified expression using AND, OR and NOT.

$$\overline{A} . \overline{B} . \overline{C} + \overline{A} . B . \overline{C} + A . \overline{B} . \overline{C} + A . B . \overline{C} + A . B . C$$

OR

(a) What is the difference of a positional and non-positional number system?

(b) What are the five basic operations performed by any computer system?

B.C.A. (Part I) Examination, 2011

**FUNDAMENTALS OF C**

(BCA-04)

Time allowed: Three Hours

Maximum Marks: 50

**Part – A (Compulsory) (Marks: 10)**

Answer all ten questions (20 words each).

Each question carries equal marks.

**Part – B (Compulsory) (Marks: 10)**

Answer all five questions (50 words each).

Each question carries equal marks.

**Part – C (Marks: 30)**

Answer all three questions (400 words each).

Each question carries equal marks.

**Part – A**

1. What is comment in C?
2. Explain the use of type def keyword in C.
3. What is sizeof operator?
4. What is Escape Sequence?
5. What is the use of break statement?
6. Define the array.
7. Write syntax and use of strcpy() function.
8. What is recursion?
9. What is the meaning of \* symbol as pointer?
10. What is the difference between Structure and Union?

**Part – B**

1. Which of the following are valid constant and why?
  - (a) 1010<sub>2</sub>
  - (b) \$123
  - (c) 9,99
  - (d) 8765L
2. Accept any three numbers and find their square and cube.
3. What is Switch() statement? Explain it with example.
4. Write a program to find the length of string without using library function.
5. What are the rules for creating any valid variable name.

**Part – C**

1. Describe different operators of 'C' language.

**OR**

Explain different looping statements with flow chart in 'C' language.

2. Write a program to check entered data types for 10 times if character is entered print "Character is entered" otherwise "Numeric is Entered" for number value.

**OR**

Write a program for read, transpose and print a two-dimension array.

3. Explain different types of user defined function with suitable example.

**OR**

What are the advantages and disadvantages of C-pointer? What type of operations can be implemented on pointers? Explain through example.



B.C.A. (Part I) Examination, 2011  
**DATA STRUCTURE AND ALGORITHM**  
(BCA-05)

Time allowed: Three Hours

Maximum Marks: 50

**Part – A (Compulsory) (Marks: 10)**

Answer all ten questions (20 words each).

Each question carries equal marks.

**Part – B (Compulsory) (Marks: 10)**

Answer all five questions (50 words each).

Each question carries equal marks.

**Part – C (Marks: 30)**

Answer all three questions (400 words each).

Each question carries equal marks.

**Part – A**

1. What is algorithm?
2. Define Data Structure.
3. What is space complexity?
4. Why do we call pseudo code as false code?
5. What are binary trees?
6. What is the full form of ADT?
7. What do you understand by term “Traversal”?
8. What is doubly linked list?
9. What are priority queues?
10. Name any two operations that can be performed on trees.

**Part – B**

1. Explain recursion with suitable example.
2. Differentiate between fixed length and variable length records.
3. Write down advantages of linked list over arrays.
4. Explain any one operation that can be performed on binary search tree.
5. Write down average case time complexity of selection sort, merge sort, quick sort and insertion sort.

**Part – C**

Answer all question. All question carry equal marks.

1. What is Quick Sort? Explain its algorithm.  
(2+8)

2. Define linked list as important data structure. Explain any four operations that can be performed on linked list.

(2+8)

3. Define the following graph terminology.

(10\*1)

- a. Directed Edge
- b. Undirected Edge
- c. Directed Graph
- d. Multigraph
- e. Cycle
- f. Loop
- g. Complete graph
- h. Path
- i. Indegree and Outdegree
- j. Acyclic graph





B.C.A. (Part I) Examination, 2011

**PC SOFTWARE**

(BCA-05)

Time allowed: Three Hours

Maximum Marks: 50

**Part – A (Compulsory) (Marks: 10)**

Answer all ten questions (20 words each).

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**Part – B (Compulsory) (Marks: 10)**

Answer all five questions (50 words each).

Each question carries equal marks.

**Part – C (Marks: 30)**

Answer all three questions (400 words each).

Each question carries equal marks.

**Part – A**

1. What is User Interface?
2. Write function of run command in MS- Windows.
3. What do you understand by Formatting text?
4. Explain Paste Special in MS-Word.
5. Explain Pivot Table in MS-Excel.
6. What is Cell Referencing?
7. What is Slide Transition?
8. Explain Speaker notes in MS- PowerPoint.
9. What is a Database? How it is different from a file?
10. Differentiate between Primary key and Foreign key.

**Part – B**

1. What is Clipboard? How it works?
2. What is Word wrap feature in MS-Word?
3. Explain goal seek and scenario in MS-Excel.
4. Explain OLE in MS-PowerPoint.
5. Explain “Importing and Exporting data” in MS-Access.

**Part – C**

1. (a) Explain the function of Control Panel. How a new software and hardware can be installed? Explain.  
(b) Explain the features of Windows Explorer.

7+3

**OR**

- (a) Explain the features of Recycle bin.  
(b) Explain the various features of windows operating system.

(5+5)

2. (a) What is word Processing? Write the important features of MS-Word.  
(b) Differentiate between the Auto Correct and Auto Text.

(6+  
4)

**OR**

What is a Worksheet? Explain different charts in MS-Excel. How it can create? Write down the steps with suitable example.

(10)

3. Write Short notes on following:

(5\*2)

- a. Rehearsal Timing
- b. Action Button
- c. Animation
- d. Slide Sorter View
- e. Handouts

**OR**

- (a) What is relationship How many types of relationship we can create in MS-Access?  
(b) What is query and Report? What kind of the queries can be prepared using MS-Access

(5+  
5)

B.C.A. (Part I) Examination, 2011

**MULTIMEDIA BASIC**

(BCA-05)

Time allowed: Three Hours

Maximum Marks: 50

**Part – A (Compulsory) (Marks: 10)**

Answer all ten questions (20 words each).

Each question carries equal marks.

**Part – B (Compulsory) (Marks: 10)**

Answer all five questions (50 words each).

Each question carries equal marks.

**Part – C (Marks: 30)**

Answer all three questions (400 words each).

Each question carries equal marks.

**Part – A**

1. What is MIDI?
2. What is DVI?
3. What is the use of <Tr> tag?
4. What is the use of <frameset> tag?
5. What is compression?
6. What is Kiosks?
7. What is Decompression?
8. What happen if two different type of compression are applied on a single audio file?
9. What is the difference between MPEG-3 and MPEG-4?
10. What do you mean by image compression?

**Part – B**

1. Explain MM platform.
2. Explain speech recognition.
3. What do you mean by Multimedia object sharing?
4. Give basic software requirement for multimedia.
5. Explain the following tag:
  - a. <marquee>
  - b. <LI>
  - c. <A>

**Part – C**

1. (a) Explain the multimedia law.  
(b) Explain the audio synthesis.

**OR**

Write HTML code for the following:

Student List:

Name	Subject 1			Subject 2		
			Total			Total
RAM	Th-50	Pr-40	90	Th-60	Pr-41	101
SITA	Th-25	Pr-35	60	Th-22	Pr-45	67
HARI	Th-30	Pr-20	50	Th-44	Pr-36	80

Submit

2. (a) Explain mpeg motion and video compression.  
(b) Explain commercial tool for multimedia.

**OR**

Explain the advantages of multimedia.

3. Write HTML code for the following:

<b>Frame 1.</b> Name : Add : Gender : <input type="radio"/> Male <input type="radio"/> Female	<b>Frame 2.</b> Subject: 1. BCA 2. BBA 3. B.Sc.								
<input type="button" value="Submit"/>	<b>Frame 3. Fees</b> <table border="1"><thead><tr><th>Course</th><th>Fee</th></tr></thead><tbody><tr><td>BCA</td><td>18,000/-</td></tr><tr><td>BBA</td><td>11,000/-</td></tr><tr><td>B.Sc.</td><td>10,000/-</td></tr></tbody></table> <input type="button" value="OK"/>	Course	Fee	BCA	18,000/-	BBA	11,000/-	B.Sc.	10,000/-
Course	Fee								
BCA	18,000/-								
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B.Sc.	10,000/-								

**OR**

- (a) Explain framework for multimedia.

(b) Explain jpeg compression standard.

