

B.C.A. (Part I) Examination, 2012
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 communication.
2. Name any two concepts of accounting.
3. What do you understand by attitude?
4. Define power.
5. Give the formula of current ratio and gross profit ratio.
6. What do you mean by cross cultural issues?
7. Distinction between formal and informal communication.
8. What is conflict management?
9. What is flexible budget?
10. Give any two difference between x and y theory of motivation.

Part B

1. Write any four functions of a manager.
2. Differentiate between a manager and a leader.
3. What do you mean by stress management.
4. Write down the format of three column cash book.
5. Explain the special skills which a manager uses for performing their task.

Part C

1. Describe and analyse the main barriers to communication.

OR

Explain the role of electronic media and information and technology in communication.

2. Explain the break-even-point and PV ratio in detail.

OR

Following information are available of Surya Ltd.:

	<u>Rs.</u>
Sales	5,00,000
Variable Cost	2,50,000
Gross Profit	2,50,000
Fixed Cost	1,50,000
Profit	1,00,000

Find out:

- (a) P.V. Ratio
 - (b) Break-even-point
 - (c) margin of safety
 - (d) Find out sales when profit is Rs. 1,50,000.
3. Explain Herzberg's Two Factor Theory and differentiate it from Maslow's Theory of Need Hierarchy.

OR

Journalise the following transactions in the books of Jayvardhan.

2011

Jan. 01	Business started with cash
Jan. 07	Purchased goods for cash
Jan. 09	Sold goods to Jaya
Jan. 12	Purchased furniture
Jan. 18	Cash received from Jaya in full settlement
Jan. 25	Paid rent
Jan. 31	Paid salary

B.C.A. (Part I) Examination, 2012
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. Give the full form of the following abbreviation:
EDVAC
2. What is meant by "Generation" in computer terminology?
3. What is the meaning of the term "memory dump"?
4. Suppose a new computer code is designed that uses 9 bit. How many different characters are possible in this code?
5. What are bar code?
6. What is off-line data entry devices?
7. What is an alphanumeric display?
8. What is a memory address?
9. What is firmware?
10. What is the meaning of 'metadata' in data warehouse?

Part B

1. Write the definition of internet with example.
2. Explain the term static and dynamic website.
3. What is Excess-3 code? Explain with suitable example.
4. Write short note on fifth generation computer.
5. What is logic gates?

Part C

1. List out and explain the characteristics of a computer.

OR

What will be the total number of different symbols or digits and the maximum value of a single digit for the following number system?

- (a) Number system with base 5.
- (b) Number system with base 20.
- (c) Number system with base 9.
- (d) Number system with base 12.
- (e) Number system with base 17.

2. What is optical scanner? Describe the optical character reader, optical mark reader and optical bar code reader in brief.

OR

Distinguish between a sequential access, a direct access and a random access device. Give one example of each.

3. What is computer viruses? Explain their type and symptoms.

OR

Explain different types of computer code in detail.

B.C.A. (Part I) Examination, 2012
PC SOFTWARE

(BCA-03)

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 full form of GUI.
2. Write use of status bar in MS-Word.
3. Write use of justify alignment.
4. What is menu bar?
5. Write the number of sheets in a new excel workbook.
6. What is left indent?
7. Write a standard width of a cell.
8. What is autofill in MS-Excel?
9. What is slide in PowerPoint?
10. What is the use of Auto correct?

Part B

1. Explain clip-board in MS-Windows.
2. Write short note on format painter.
3. Explain animation of text.
4. What is the use of label in MS-Access?
5. Explain candidate key in MS-Access.

Part C

1. (a) What is taskbar? Describe how to use and configure the taskbar and its toolbar.
(b) How paragraph can be formatted? How find and replace command works? Explain the standard toolbar.
- OR**
- (a) What is the main work of slide transition option in slide show menu?
(b) How an organisation chart can be inserted into a slide in PowerPoint? Give the steps.
(c) Define various views of PowerPoint.
 - (a) What do you mean by formatting? Can you format selected row or column according to condition? If yes, write basic steps for conditional formatting.
(b) What is style? Write a step for creating style.

OR

- (a) What are macro? Why macro is used? Write step for creating run and deleting a macro.

- (b) What is a pivot table? Detail the procedure to create pivot table.
 - 3. (a) Explain different types of charts in MS-Excel. Explain the concept and use of macros.
 - (b) How will you set up a self-running presentation in PowerPoint?
- OR**
- (a) What is the use of sorting and searching records in MS-Access?
 - (b) How will you use the MS-Access to retrieve and publish data? Explain.

B.C.A. (Part I) Examination, 2012
FUNDAMENTALS OF C PROGRAMMING
(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 pre-processor directive?
2. Difference between pretest and post test loops.
3. Why is the conditional operator called a ternary operator?
4. What are escape sequences?
5. Difference between structure and union.
6. What is effect of writing a continue statement in a loop.
7. How is a pointer initialized?
8. How dose an append mode differ from a write mode?
9. Difference between get and getchar function.
10. Write syntax and use of strcat() function.

Part B

1. Differences between signed and unsigned data type.
2. What is a Null statement? Explain its usefulness.
3. Write a program to print Fibonacci series.
4. What is a Union? How is a union declared in 'C'?
5. What are functions? Write the general syntax for declaring a function.

Part C

1. (a) Explain the primary data-type of 'C' language.
(b) Differentiate conditional and unconditional branching. $6 + 4 = 10$

OR

Write programs to print following outputs using for loop.

- (a) 5 4 3 2 1
5 4 3 2
5 4 3
5 4
5

- (b) 5

4 5
3 4 5
2 3 4 5
1 2 3 4 5

(5 + 5 = 10)

2. What is an array? Explain 'pointers and arrays' with suitable example. (2 + 8 = 10)

OR

What is recursion? Write a 'C' program to calculate the factorial of a given number using recursion. (3 + 7 = 10)

3. What is a structure? Explain 'arrays of structures' with suitable example. 2 + 8 = 10

OR

- (a) Explain the difference between 'call by value' and 'call by reference' with example.
(b) What are basic file operations? Explain with syntax. (5 + 5 = 10)

B.C.A. (Part I) Examination, 2012
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.

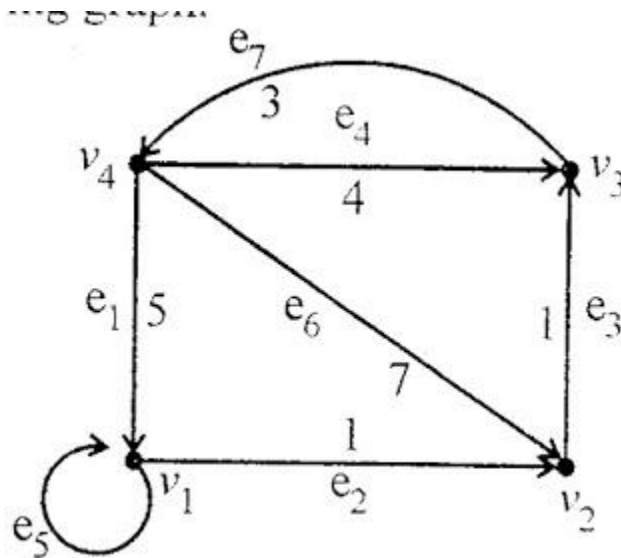
Part – C (Marks: 30)

Answer all **three** questions (400 words each).

Each question carries equal marks.

Part A

Give answer of Q. No. 1 to Q. No. 4 from following graph.



1. What is in-degree of vertex v_1 ?
2. What is out-degree of vertex v_2 ?
3. What type of graph is this?
4. What is shortest distance value from v_4 to v_2 ?
5. What is undirected graph?
6. What is null graph?
7. What is order of $F = 4n^3 + 3n^2 + n + 7$?
8. How many edges are there in fully connected directed graph for 3 vertices?
9. What is malloc function?
10. What is calloc function?

Part B

1. What are the differences between stack and queue?
2. Draw diagram to insert a node in between two nodes of linked list.
3. What is hashing? Explain it.
4. Draw binary tree for expression $a + b/c * d - e$.
5. Convert following infix expression to prefix.
 $x + y / z * l - m$

Part C

1. (a) Explain binary search algorithm.
(b) Write a program to search a number in array using binary search in C.
OR
(a) Explain tower of Hanoi game.
(b) Write a program to print steps of tower of Hanoi.
(c) Execute this program on paper (dry run) for three rings.
2. Explain DFS algorithm with example.
OR
Explain BFS algorithm with example.
3. (a) Explain bubble sort method for string sorting.
(b) What is ISAM? Explain it.
OR
What is stack? Explain push, pop, peep and update operations with their algorithms.

B.C.A. (Part I) Examination, 2012
MULTIMEDIA BASIC

(BCA-06)

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 hyperlink?
2. What is the difference between and tags?
3. What is CSS?
4. What is resolution?
5. Name the attributes of <Hr> tag.
6. What is the difference between cell spacing and cell padding?
7. What is CODEC?
8. What is morphing?
9. What is quantization?
10. What is the full form of JPEG and GIF?

Part B

1. What is the difference between Java and Java script?
2. Write short note on virtual reality operating system.
3. What is the difference between JPEG and MPEG?
4. How can we create image map in HTML?
5. What is the difference between paired and singular tags?

Part C

1. (a) Is multimedia sharing possible? If yes, how?
(b) Define various methodology of multimedia system.

OR

Write a HTML code for design following form.

Enter Your Name :

Enter Password :

Enter Sex : Male Female

Enter Hobbies Music Games

2. Write short notes on:

- (i) Video capturing
- (ii) Use of multimedia in entertainment

OR

What is audio compression and decompression? Where it is used?

3. (a) Explain MIDI sound.
 (b) Explain DVI-Real time compression.

OR

Write a HTML code to enter a table for following detail.

XYZ University			
ABC College			
Roll No.	Name	Theory	Practical
1	Ram	50	3
2	Shyam	35	20
3	Ramesh	20	15
4	Dinesh	30	18
Total Marks:		135	83