



BCA Part-1 Examination, 2008
DATA STRUCTURE AND ALGORITHM

Time allowed: Three Hours
Maximum Marks: 50

Attempt any five questions. All questions carry equal marks.

1. Explain the array representation of Stack and Queue with examples. 10
2. Write notes on the following:
 - a. Tower of Hanoi
 - b. Header linked list
 - c. DFS
 - d. BFS
 - e. Prism Algorithm 2*5=10
3. Explain the mechanism of prefix, postfix and infix arithmetic expressions using stack. 10
4. What do you mean by sequential file organization? Write a program to insert record in the file having at least 3 fields. 10
5. Explain the following:
 - a. Insertion sort
 - b. Selection sort
6. Describe the concept of trees. Explain various types of trees with suitable examples. 10
7. What is searching? How linear searching is useful? Also explain its application areas. 10
8. Explain the following:
 - a. Multidimensional Arrays
 - b. Pointer to Arrays
 - c. Hashing Mechanism 3+3+4
9. What are graphs? Explain the various operations that be performed on graphs through suitable examples. 10



BCA Part-1 Examination, 2008
FUNDAMENTALS OF C PROGRAMMING

Time allowed: Three Hours
Maximum Marks: 50

Attempt any five questions. All questions carry equal marks.

1. (a) When and where C-Language was developed? Why is C-Language so popular and useful, even in today's world? Explain in detail.
(b) What is meant by comparison and logical operators? How are they different from the arithmetic and assignment operators? 4,6
2. (a) How is a C-Program executed in computer? Explain with the help of its flow diagram.
(b) Describe all types of branching statements of C-programming, with suitable examples. 5,5
3. (a) Identify error, if any, in the following statements:
 - i. float average[ROW],[COLUMN];
 - ii. statis int m[2,4]={(0,0,0,0),(1,1,1,1)};
 - iii. for(; ;)
{

}
 - iv. #include<myprgm.c>
 - v. *p=&n;(b) Write a program that reads a string in an array and convert each character into the next character of alphabetical order. 5,5
4. (a) Write a program to find the sum of the following series without using pow() function:
$$1 - x + x^3/!3 - x^5/!5 + x^7/!7 - \dots \dots \dots n \text{ terms}$$

(b) Why is the use of 'goto' statement generally discouraged? Under what conditions might the goto statement be helpful? What type of uses should be avoided and why? Describe with suitable examples. 6,4
5. (a) Explain role of getchar() and putchar() library functions with suitable examples.
(b) What is a pointer? What is the use of pointers in C programming? What are the scope rules of the pointer variable? 4,6
6. (a) What do you mean by user define function, calling program, called program in a C-program? Explain.
(b) Write a complete program with a user define function 'prime'. The prime will return '1' if its argument is a prime number and return '0' otherwise. 5,5
7. What is structure? How does a structure differ from an array? Explain. Write a program using structures 'date' which receives 'n' number of dates from the console and then display them in the from dd/mm/yyyy. 10



8. What is a pointer? How is a pointer initialized? Distinguished between & p[10] and (*p)[10]. Write a program, using pointers, to arrange a given set of integers in decreasing order. 10
9. write explanatory notes on the following: 5,5
- i. Preprocessors in C-programming
 - ii. File processing system in C-programming





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16. Explain the following:
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BCA Part-1 Examination, 2008
Management and Accounting

Time allowed: Three Hours
Maximum Marks: 50

Attempt any five questions. All questions carry equal marks.

- 20,000
1. Planning is a bridge between the present and the future. It has been called the important function. Explain. 10
 2. Explain Maslow's need hierarchy theory. How does it compare with the two-factor theory. 5+5
 3. Describe the special skills with a manager use for performing their task. 10
 4. What is the role of information technology in communication? 10
 5. What is inter-personal conflicts? What are the general conflict management techniquee? 3+7
 6. Define stress. What are the various types and causes of stress? 3+7
 7. 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. 10
 8. In 2007 the position of X 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:

 - (a) BEP in units and in Rs.
 - (b) Margin of safety.5+5
 9. Write short notes on any two: 3+3+4
 - a) Fixed budget
 - b) Flexible budget
 - c) Accounting concepts



BCA Part-1 Examination, 2008
MULTIMEDIA BASIC

Time allowed: Three Hours
Maximum Marks: 50

Attempt any five questions. All questions carry equal marks.

1. (a) Write down and explain various requirements for designing basic framework for multimedia systems.
(b) Multimedia is very useful in 'Primary education' and 'Advertisement'. Explain worth of this statement by giving some practical examples. 5+5=10

2. Write short notes on the following:
 - a) Morphing
 - b) TV Tuner Card
 - c) Virtual Reality
 - d) Audio Synthesis 4*2¹/₂=10
 - e)

3. How image is processed and transmitted? Describe the method of capturing images with the help of examples. 10

4. Explain the following multimedia related terms:
 - a) DVI Technology
 - b) MP4 files
 - c) Multimedia Kiosks
 - d) Multimedia platform 4*2¹/₂=10

5. (a) Briefly explain various compression standards available for still images and moving images.
(b) Explain any two latest techniques for sharing multimedia. 6+4=10

6. (a) Differentiate between:
 - i. Compression and Decompression
 - ii. Virtual Reality System and Real Time System (3*2=6)(b) Write syntax and use of HTML Tags which can be used for the following items:
 - i. Anchor
 - ii. Frame
 - iii. List
 - iv. Table (4*1=4) (Total 6+4=10)

7. (a) Write down the process for creating animated GIFs and transparent images.
(b) What are style sheets? Explain any two uses of style sheets. 5+5=10

8. How is HTML different from DHTML? Write suitable HTML code to implement the following structure: 10



BIO-DATA

Your Name :

Your Gender : Male Female

Your Qualification:

Your Address :

Your Hobbies : Cricket Movies
 Music Bookes





BCA Part-1 Examination, 2008
PC SOFTWARE

Time allowed: Three Hours
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Attempt any five questions in all, selecting **one** question from each Unit. All questions carry equal marks.

Unit 1

1. (a) Explain the four utility program that are provide with window operating system. 2
(b) In what ways is windows 98 a better operating system than DOS? 8
2. (a) Write short notes on:
 - a) Microsoft narrator
 - b) Address book
 - c) Window Hibernation
 - d) Scheduled task
 - e) Creating user accounts 2*5

Unit II

3. (a) What is the difference between the administrator user and guest user working with Window operating system? 6
(b) How can you add and remove hardware from your PC? 4
4. (a) Why is a MS World enhanced than a word processor? 3
(b) What is embedded search? How is it differ from case sensitive search? 3
(c) What do you mean by Paste? Explain paste, paste special and paste as hyperlink. 4

Unit III

5. (a) Differentiate among trace precedents, trace dependents and trace error. 4
(b) Explain the following:
 - i. Axis values
 - ii. Conditional formatting
 - iii. Scenario 2+2+2
6. (a) Write difference between formula and function. 2
(b) Explain the following functions with examples:
 - i. CELING()
 - ii. SUMIF()
 - iii. COUNT IF()
 - iv. FV() 2+2+2+2

Unit IV

7. (a) How many types you create a presentation in power point? Write steps to create a presentation using Auto contents Wizard. 4+4
(b) Write a short note on OLE. 2
8. Write short notes on:
 - a) Organization chart
 - b) Record narration
 - c) Action button
 - d) Set up show



- e) Digital signature 2*5
- Unit V**
9. (a) Explain the different tools to design a form in MS Access. 4
(b) Write short notes on:
i. Input mask
ii. Unicode compression
iii. Primary Key
2+2+2
10. (a) Explain various security options of MS Access. 4
(b) Write short notes on:
i. Pages
ii. Macro
iii. Modules 2+2+2

