(Please write your Exam Roll No.) Exam Roll No. 0086012008

END TERM EXAMINATION

FIRST SEMESTER [BCA] DECEMBER-2008

Paper Code: BCA107	Subject: Fundamentals of Information Technology
Paper Id: 20107	(Batch: 2005-2008)
Time : 3 Hours	Maximum Marks :75

Note: Q.1 is compulsory. Attempt any five questions by selecting one question from each section.

Q1 (a) What is the need for software on a computer? Explain.

(b) What is the need for operating system?

(c) What is internet service provider?

(d) What is primary memory?

(e) What is the processor used in Pentium computers?

(f) What is a DAT drive?

(g) One KB has how many bits?

(h) How internet connection is set up?

(i) What is the difference between single click and double click?

(j) What is an IP address? **(10x2.5=25)**

SECTION-A

Q2 What are the various types of computers? Compare in terms of their capabilities. **(12.5)**

Q3 What are the various input/output devices attached with a computer? Explain with the help of example. **(12.5)**

SECTION-B

Q4 Write short notes on the following:- **(3+3+3+3.5)**

(a) Machine language
(b) Assembly language
(c) High level language
(d) 4GL

Q5 How computers can be classified based on the generation of the computers? Explain the technology used in each of the generation. **(12.5)**

SECTION-C

Q6 (a) What are the various features of Vi editor? Explain with example. **(6.5)**

(b) Explain the following commands of UNIX:- **(1.5x4=6)**

(i) pwd (ii) ls (iii) cp (iv) mv

Q7 What is an operating system? What are the different types of operating systems? **(12.5)**

SECTION-D

Q8 What is an internet? What are the services provided by internet? **(12.5)**

Q9 What is a network of computers? What are the different topologies used in the setup of a network? **(12.5)**

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END-TERM EXAMINATION

FIRST SEMESTER [BCA] DECEMBER-2007

Paper Code: BCA-107	Subject: Fundamentals of Information Technology
Paper Id: 20107	Batch: (2005-2007)
Time : 3 Hours	Maximum Marks : 75

Note : Attempt six questions including Q.No1 which is compulsory. Q.No.1 carries 15 marks and other questions carry 12 marks each.

Q.1 Attempt **any five** briefly:-

(a) What are advantages of floating point representation of numbers?

(b) Differentiate between application softwares and systems softwares.

(c) What is Net Surfing?

(d) Differentiate between Internet and Intranet.

(e) Explain Moore's Law.

(f) Convert $(101010111.011)_2$ to Decimal and Octal.

(g) What is RISC?

Q.2 List various input and output devices. Explain two input and two output devices in detail with neat diagrams.

Q.3 Describe the following:-

(i) Generation of Programming Languages

(ii) Error-detecting codes

(iii) Uses of two's compliment representation of numbers

Q.4 Differentiate between DOS, Linux and Windows operating systems in detail with their relative merits and demerits.

Q.5 Differentiate between the following:-

(i) Client and Servers

(ii) Distributed computer system and parallel computers

(iii) CDs and DVDs

Q.6 Explain the following briefly:-

(i) Internet Services

(ii) Binary Division

(iii) Memory Organisation

Q.7 Write short notes on the following:-

(i) TCP/IP

(ii) Virtual Memory

(iii) Uniform Resource Locator

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(16)

(Please write your ...)

END TERM EXAMINATION

FIRST SEMESTER [BCA] DECEMBER-2009

Paper Code: BCA107 *Subject: Fundamentals of Information Technology*
Paper Id-20107

Time : 3 Hours *Maximum Marks :75*

Note: Q.1 is compulsory. Attempt any four questions from the remaining eight questions by selecting one question from each unit.

Q1 (a) What is the difference between data and information?
(b) How a compiler differs from an Interpreter?
(c) Describe the difference between serial and Random access.
(d) Distinguish between Disk Operating System and Windows Operating System.
(e) Explain the TCP/IP model.
(f) What is the purpose of spooling software?
(g) What are the advantages of programming in machine language?
(h) Why have companies started using intranets?
(i) Describe web pages and web browser.
(j) Why is the world wide web called a hypermedia system? **(10x2.5=25)**

SECTION-A

Q2 Draw a block diagram of the structure of a digital computer and the inter-connection of various units. Explain the functions of various units briefly. **(12.5)**

Q3 Describe any three input and three output devices. **(12.5)**

SECTION-B

Q4 Draw a program flowchart for the following application. **(12.5)**
Ten numbers are kept in random order in a list. They are to be arranged in ascending and descending order. The output should be finally printed in the following format:-
List of numbers in ascending order:-----
List of numbers in descending order:-----

Q5 Compare the distinction between third and fourth generation computers. **(12.5)**

SECTION-C

Q6 Describe file management system (FMS) and DBMS. What are the advantages of DBMS over FMS? **(12.5)**

Q7 Briefly discuss various operating systems for microcomputers. **(12.5)**

SECTION-D

Q8 Describe various network topologies. Also, mention their advantages and disadvantages. **(12.5)**

Q9 The common uses of the internet can be classified into three primary types. Discuss each type briefly. **(12.5)**

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