THE INSTITUTE OF CORPORATE SECRETARIES OF PAKISTAN
C.I.S EXAMINATION JULY 2012
MODULE A   PAPER: INFORMATION TECHNOLOGY   GROUP II

Time allowed 3 Hours   **Max. Marks: 100**

Instructions: Attempt all questions.

                                                                              Marks
Q1.   (a)   MCQs. Select the *Best Suitable* answer for each.   15

   i.   Characteristics of an entity or organism to alter itself of its responses to the changed circumstances or environment

         1.   Programmer/Analyst   3.   Feedback
         2.   Adaptability   4.   Database Administrator

   ii.   The total volume of work performed by the computer system over a given period of time is termed as

         1.   Throughput   3.   MHz
         2.   GHz   4.   Output

   iii. A group of circuits interconnecting all sections of the microprocessor is called a ___

         1.   Protocol   3.   Bus
         2.   Control Unit   4.   ALU

   iv.   _____ is a boundary shared by human beings and computer.

         1.   Reports   3.   Data
         2.   Interface   4.   Printer

   v.   _____ means browsing for information over the internet.

         1.   Search Engine   3.   Surfing
         2.   Internet Explorer   4.   Searching

   vi.   Information of a permanent nature is stored in a _____ file.

         1.   Backup   3.   Transaction
         2.   Flat   4.   Master

   vii. A network topology where all computers are connected to a central Hub is called _____.

         1.   Token Ring   3.   Ring
         2.   Star   4.   Bus

viii   'Firmware' is associated with:

1. Application Software for firm
2. Special purpose hardware
3. Software in ROM
4. Benchmark Software

ix   Transistor Technology was used in _____ generation of Computers.

1. First
2. Second
3. Third
4. Forth

x   A number system with a base of 8 is known as :

1. Binary
2. Octal
3. Hexadecimal
4. Digital

xi   Point-of-Sale or POS pertains to:

1. Sales point plotted in computer graphics
2. Sales between two locations
3. A value that indentifies the location of sales data
4. An input-output device updating sales and inventory

xii   Process in which the effect or output of an action is returned to modify the next action.

1. Feedback
2. Product
3. Reply
4. Feed Forward

xiii State the major point(s) the Requirement Analysis phase covers:

1. Interviewing staff at different levels
2. Examine current business and system documents and output
3. Observation of the current procedures
4. All of the above

xiv   Windows XP is an example of _____ system.

1. Open
2. Hardware
3. Close
4. Compiler

xv   _____ is a computer to computer communication using a standard data format to exchange business information electronically between independent organizations.

1. Program
2. EDI
3. Wi-Fi
4. WAN

Q1. (b) Match the definitions of terms given in column I with the description in column II. 15

	Column - I		Column – II
1	PIXELS	A	Communication between two pieces of hardware.
2	PEER-TO-PEER	B	Picture elements in individual dots.
3	HANDSHAKING	C	Scrambling of data
4	HANG-UP	D	Light-emitting diode
5	SPOOLING	E	Buffer storage to reduce processing delays.
6	DML	F	Hyper Text Transfer Protocol
7	ENCRYPTION	G	Output device
8	LED	H	Collection of computers with the same access rights as every other computer on the network.
9	IP	I	Problem in hardware, control software or media.
10	HTTP	J	Relating to measurement of network speed.
11	LCD	K	Logical Error
12	BANDWIDTH	L	Shows the flow of data
13	BUG	M	High speed buffer memory
14	DFD	N	Retrieve or access the data from database
15	CACHE	O	Set of standards or rules (Communication).

Q2. (a) Explain the term *"System Development Life Cycle (SDLC)"*. 6

(b) Explain the following models of SDLC; 4

    i. Waterfall Model
    ii. Rapid Prototyping Model

Q3. Briefly define the following systems;

    a. Transaction Processing System (TPS)   4
    b. Decision Support System (DDS)   4
    c. Executive Support System (ESS)   4
    d. Expert System (ES)   4

Q 4. (a) Differentiate between the followings terminologies; 15

    i. Centralized and Distributed Processing
    ii. Batch and Online Processing
    iii. Direct and Parallel Change Over Methods

(b) What do you understand by *"E-commerce"*? And write down its four advantages. 4

Q 5.   Name the following topologies: 3

a.	b.	c.
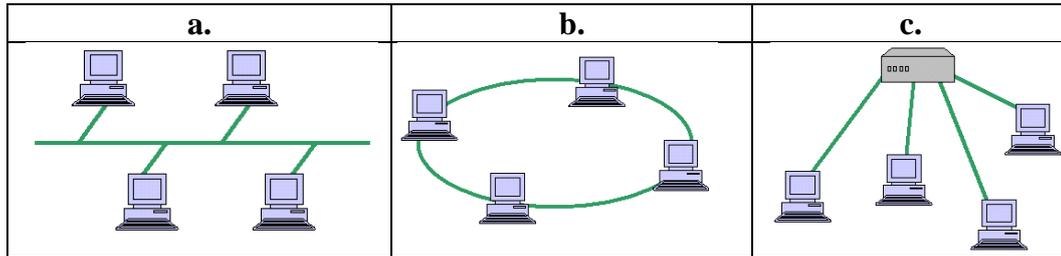
Q6.   (a)   What is *information*? Define two methods of accessing the information.   3

     (b)   How, the security of data and computer operations can be improved of a computer based Financial System? Give your answer in points.   3

     (c)   How does System Analyst collect information for IS department?   3

Q7.   (a)   What is a database?   4

     (b)   Define the functions of DBMS.   3

Q8.   (a)   *"Is it better to purchase the ERP software packages from market than to develop such packages in-house?"* Evaluated the statements and give your arguments   3

     (b)   Explain the steps involved in IS Audit of a Computer Based System (CBS), (Accounting System).   3