

CWA Inter - Stage I : Information Systems and Technology - June 2010

1-6(IST) Revised Syllabus

Time Allowed : 3 Hours

Full Marks : 100

The figures in the margin on the right side indicate full marks.

Answer Question No. 1 which is compulsory and any five questions from the rest.

Marks

1. (a) Match Column (1) with Column (2) and write your answers only in A, B, —, 1x10
J for each part below:

1	2
(i) Handshaking	A. Interconnecting two computer networks of
(ii) Modulator	B. different architecture
(iii) Pixels	C. Helping us to remember
(iv) Baud	D. Communication between two pieces of
(v) Modulus	E. hardware
(vi) Cache	F. Repetitive operation based on the parameters
(vii) memory	G. Combination of text, graphics, video,
(viii) Mnemonic	H. animation and sound
(ix) Iteration	I. Converts a signal for transmission
(x) Multimedia	J. Increases the speed of processing
Gateway	Pertaining to calculation of check digit
	Picture elements of individual dots that form
	an image on the PC screen
	Measurement of data transmission speed.

- (b) Put an appropriate word in blank position out of the ten options given in the following table: 1x5

(a) System	(b) Input	(c) Network	(d) Assets	(e) Trail
(f) Servers	(g) Data	(h) Decision	(i) Binary	(j) Parity

- (i) One of the objectives of information system auditing is safeguarding of _____ .
- (ii) _____ support system refers to a problem solving system.
- (iii) The purpose of _____ check bit is to prevent data corruption during the process of data transfer.
- (iv) Audit _____ locates the original source of input for verification.
- (v) Network components of three basic building blocks viz. _____, clients and communication media.
- (c) Each statement below is either TRUE or FALSE. Choose the most appropriate one: 1x5
- (i) Compiler converts machine language to a high level language program.

- (ii) 'Upload' implies transfer of a file from a local connected device to a remote computer.
 - (iii) In the Windows System, a Folder is a storage area for Files and Sub-folders.
 - (iv) Undefined terms in computer programs constitute logical errors.
 - (v) 'Packet switching' on the Internet refers to method of data movement.
2. (a) What are the steps involved in the implementation of ERP? What are the benefits to be derived after implementation? 5+5
- (b) Calculate the decimal and hexadecimal equivalent of octal number 333. 2+2
- (c) How do you justify 'computer' to be termed as a 'system'? 2
3. (a) How do you distinguish 'Internet' from 'Intranet'? What are the purposes served by Intranet? Describe the various types of advantages from availability of Intranet. 2+2+4
- (b) In the context of Information Technology Act, 2000, explain the following terms: 2+2
- (i) 'Electronic Record' and 'Unauthorised Access'
 - (ii) 'Authentication' and 'Authorization'.
4. (a) Distinguish between the following: 2x4
- (i) LAN and WAN;
 - (ii) Auditing around the computer and auditing through the computer;
 - (iii) Distributed and proprietary databases;
 - (iv) Preventive and detective controls;
- (b) Write the full form of the following abbreviations: 1x5
- (i) B-ISDN;
 - (ii) DML;
 - (iii) IDEA;
 - (iv) GUI;
 - (v) EFTS;
- (c) Define 'Private Key' and 'Public Key' under IT Act, 2000. 3
5. (a) Who are End Users in a DBMS and how they may be categorized? 1+4
- (b) What are the features of SAP? Name three platforms for the application of SAP. 3+3
- (c) What are the factors to be considered before changeover to a new information system? 5
6. (a) What is the role of Database Administrator in a database environment? 4
- (b) Clarify the inter-relationship among 'system', 'sub-system', 'synergy' and 4

- ‘structure’.
- (c) What is the purpose of whole-of-program testing? What is the objective of each type of test carried under it? Is it applicable for all types of programs? 1+4+1
- (d) What do you mean by ‘Home Page’ and ‘URL’ in the Internet? 1+1
7. (a) What are the factors that may affect the security of the computer system of an organisation? 6
- (b) How does time-sharing work in a computer installation and what are its advantages? 2+2
- (c) What do you mean ‘peripherals’? Classify ‘peripherals’ with examples. 2+2
- (d) Explain the concept of ‘memory dump’ with an example. 2
8. Write short note on any four of the following: 4x4
- (a) Communication Protocols in Internet;
- (b) Digital signature;
- (c) Selection of an ERP Package;
- (d) Criteria in choosing the file organisation method;
- (e) Pseudo code;
- (f) Transaction Processing System;
- (g) Hacking with computer system under IT Act 2000;
- (h) Methods of accessing ‘Internet’

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