

INSTITUTE OF COST AND MANAGEMENT ACCOUNTANTS OF PAKISTAN



Fall (Winter) 2009 Examinations

Monday, the 23rd November 2009

**INTRODUCTION TO INFORMATION TECHNOLOGY (S-204)
STAGE-2**

Time Allowed – 2 Hours 45 Minutes

Maximum Marks – 40

- (i) Attempt ALL questions. All questions carry equal marks.
- (ii) Answers must be neat, relevant and brief.
- (iii) In marking the question paper, the examiners take into account clarity of exposition, logic of arguments, presentation and language.
- (iv) Read the instructions printed on the top cover of answer script CAREFULLY before attempting the paper.
- (v) DO NOT write your Name, Reg. No. or Roll No. anywhere inside the answer script.
- (vi) Question No.1 – “Multiple Choice Question” printed separately, is an integral part of this question paper.
- (vii) There will also be a practical examination of 50 marks.

MARKS

SECTION “A” – HARDWARE

- Q.2 (a)** How do you judge one CPU as more powerful than the other? Name five major attributes which help in such judgment. **02**
- (b)** What do you mean by an Intelligent terminal, a semi-Intelligent terminal and a dumb terminal? Name the situations where each type has its specific use. **02**
- (c)** What are the three bandwidths for communication channel? Discuss their differences. **02**
- Q.3 (a)** What is automated office? List down the features of the automated office and their major functions. **02**
- (b)** Give at least two reasons for each of the following: **03**
- (i)** Cache memory in a processor
 - (ii)** Use of RS-232 port
 - (iii)** Need of Hub in a network
- (c)** A moving arm disk-storage device has the following specifications:
- | | | |
|-------------------------------------|---|---------------------|
| No. of tracks per recording surface | = | 200 |
| Track storage capacity | = | 62,500 bits |
| Disk rotation speed | = | 2,400 rev. / minute |
- Estimate the average latency and the data transfer rate of this device. **01**
- (d)** Distinguish between the following: **04**
- (i)** Dynamic RAM and static RAM
 - (ii)** Voice synthesizer system and voice recognition system
 - (iii)** Synchronous and asynchronous data transmission
 - (iv)** Client-server architecture and peer-to-peer architecture

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SECTION "B" – SOFTWARE

- Q.4 (a)** Explain how the following utility programs help in computer and data management: **04**
- (i) Compression software
 - (ii) Diagnostic software
 - (iii) Backup utilities
 - (iv) Disk de-fragmentation software
- (b) Define the term 'coding' and various techniques for structuring codes. What are the measures adopted for prevention and detection of 'coding errors'? **02**
- (c) What do you know about procedure-oriented languages and object-oriented languages? Explain briefly. **02**
- Q.5 (a)** Describe the three types of database models which are common in the industry. Explain the differences between these three models. **03**
- (b) What do you understand by computer aided design technique? Explain the rules for graphic software design. **02**
- (c) Explain briefly the various language tools available in MS-WORD. **01**
- (d) State the full form of the following acronyms: **02**
- (i) EBCIDIC MICR EFTS
 - (ii) LCD CASE CRT
 - (iii) CAM OCR

SECTION "C" – NETWORK & SECURITY

- Q.6 (a)** What is an OSI architecture? Discuss its importance for network communications? Briefly describe the functions of all seven layers of the OSI architecture. **03**
- (b) What is TCP / IP protocol? Identify applications used under TCP/ IP. **02**
- (c) Describe briefly the following with reference to I.T: **03**
- (i) Bluetooth
 - (ii) Router
 - (iii) VPN

THE END