

2009

DO NOT WRITE ANYTHING HERE

- (ix) A network that covers a large geographical area such as a country is called
- A. Centralized Network
 - B. Distributed Network
 - C. Local Area Network
 - D. Wide Area Network
- (x) A modem's rating of 56k refers to its:
- A. Memory size
 - B. Transmission speed
 - C. Modem size
 - D. Model No.
- (xi) Temporary storage area within CPU is called:
- A. Register
 - B. RAM
 - C. ROM
 - D. PROM
- (xii) A person who gains illegal access to a computer system is known as:
- A. Hacker
 - B. Worm
 - C. Software pirate
 - D. Trojan horse
- (xiii) The secret word or number used for protection is called:
- A. Password
 - B. Biometric data
 - C. Codes
 - D. Login
- (xiv) Which of the following is the fastest communication mode?
- A. Half duplex
 - B. Full duplex
 - C. Simplex
 - D. Multi-duplex
- (xv) Sound, light and radio waves are examples of:
- A. Digital signal
 - B. Analog signal
 - C. Simple signals
 - D. Waves

For Examiner's use only:

Total Marks:

15

Marks Obtained:

— 1HA-0912 —



COMPUTER SCIENCE HSSC-I

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

NOTE:- Sections 'B' and 'C' comprise pages 1-2 and questions therein are to be answered on the separately provided answer book. Answer any thirteen parts from Section 'B' and attempt any three questions from Section 'C'. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 39)

Q. 2 Attempt any THIRTEEN parts. The answer to each part should not exceed 5 to 6 lines. (13 x 3 = 39)

- (i) How is hardware different from software? Give two reasons why hardware is useless without software.
- (ii) Define the terms:
 - a. Read Operation.
 - b. Write Operation.
 - c. Access Time.
- (iii) List three application of computer in medical field.
- (iv) Define the basic elements required for a data communication system.
- (v) Define protocols. Also write the functionality of the following protocols:-
 - a. TCP / IP
 - b. X.25
- (vi) Draw a diagram for star topology. List one advantage and one disadvantage of star topology.
- (vii) Define the terms of workgroup computing and groupware. Give one example of workgroup.
- (viii) List any three data protection principles.
- (ix) You are given a task to write an application for leave, which of the computer program you will use to write your application. How it will be advantageous over hand written application?
- (x) What are search engines? How they are useful in searching? Name any two search engines.
- (xi) How circuit switching and packet switching techniques are different in data communication?

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(xii) State three major function of an operation system.

(xiii) Consider the following spreadsheet from MS-Excel.

	A	B	C	D	E	F	G
1	Name	Phys. (75)	Chem. (75)	Math (100)	Total (250)	%	Average
2	Student A	60	65	95			

Write formula in E2, F2 and G2 to calculate total, % and average.

(xiv) State three reasons for taking data backup.

(xv) Write down the two reasons of using plotters over printers also write one drawback of plotter.

(xvi) What task is carried out by the ALU?

(xvii) Write down any two benefits and one drawback of internet in daily life.

SECTION – C (Marks 21)

Note:- Attempt any THREE questions. All questions carry equal marks.

(3 x 7 = 21)

- Q. 3** Why OSI model was developed? Draw and label OSI model. Also write down the functionality of any four layers. 1+2+4
- Q. 4** What is the computer instruction? Elaborate direct and indirect address instructions. Also explain the three different instructions code formats diagrammatically. 1+3+3
- Q. 5** Why is it necessary to protect your computer from viruses? Briefly describe five ways to protect your computer from viruses. 2+5
- Q. 6** How media is important in communication? Discuss any three communication media, in terms of security, cost and speed. 1+2+2+2

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