Answer Sheet No	
Sig. of Invigilator	

COMPUTER SCIENCE HSSC-I

SECTION - A (Marks 15)

Circle the correct option i.e. A / B / C / D. Each part carries one mark.										
	(i)	Devices	s used for commu	inicating t	he results of proces	ssing su	ich as printer, moni	tor, etc a	re known as	
	107	Δ	CPU	B.	Input devices	C.	Output devices	D.	Software	
	(ii)	rticular problem								
	is known as a/an									
		Α.	Processor			B.	Computer Archit			
		C.	ALU			D.	Computer Progr		TV - PERMANAN	
	(iii)					leciding	which physical pat	hway the	data should take,	
	based on network conditions, priority of service, e									
		A.	Network	B.	Data link	C.	Presentation		Application	
	(iv)	Set of r	rules or agreemer	nt betwee	n different parts of	a netwo	rk on how data is to	be trans	smitted is called a	
		A.	Network Topole	ogy		В.	Communication	Protocol		
		C.	Hub			D.	None of these			
	(v)	Α	communic	cation line	is capable of trans	mitting	data in only one dir	ection.	None of these	
		Α.	Duplex	B.	Half-duplex	C.	Simplex	D.		
	(vi)	The tra	ansmission metho	d in which	h start and stop bits	are no	t required (before tr	ansmissi	ion of each character)	
		is calle	ed				207 107 10		1	
		A. Synchronous transmission				В.	Asynchronous t	ransmiss	Sion	
		C.	Both A and B			D.	None of these		in collect	
	(vii)	A math	nematical descrip	tion or mo		n in the	form of a computer	D.	None of these	
		A.	Printer	В.	Microwave	C.	Simulation			
	(viii)	The Ci	ircuitry that is use	d to perfo	rm operations such	as add	lition, subtraction, e	ic inside	a computer system is called	
		A.	Control Unit	B.	Registers	C.	Cache	D.		
	(ix)	The br	anch of law, which	h protect			thorized use by our	D.	e, is known as None of these	
		A.	Criminology	B.	Copyright	C.	Anthropology			
	(x)	The feature of an operating system that allows a user to work in more than one program simultaneously								
		is calle	ed be			_	Dookton	D.	Multitasking	
		A.	Process	В.	Clipboard	C.	Desktop	О.	Wattaconing	
	(xi)	In Mic			rtcut is used to cop		Ctrl+E	D.	Ctrl+X	
		A.	Ctrl+C	B.	Ctrl+V	C.			Odirix	
	(xii)	Most					sing which language BASIC	D.	HTML	
		A.	C++	В.	COBOL	C.	T-0. 10-0000			
	(xiii)	Webs			search for informa	tion on	the web are known Teleconference	a D	Browser	
		A.	Chat Rooms	В.	Search Engine	s U.	and commodities by	means	of computer telecommunica	
	(xiv)				ps and selling infor	nation a	and commodities by	rincano	or comparer re-	
			rks is known as _		— Ciletion	C.	Emulation	D.	CAD	
		A.	E-commerce	В.	Simulation		address of an opera			
	(xv)			of an insti	ruction code speciii	es uie a	duless of all opere			
			a/an			В.	Direct address			
		Α.	Indirect addre			D.	None of these			
		C.	Immediate op	erand		D.	140110 01 111000			
							_			
	For	For Examiner's use only:							15	
		Total Marks:						10		



COMPUTER SCIENCE HSSC-I

Time allowed: 2:40 Hours

Total Marks Sections B and C: 60

1+2+2+2=7

NOTE:- Answer any thirteen parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. 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 x3 = 39)
 - Define "Information Technology". Briefly write about any two forms in which information can be represented.
 - (ii) Write a brief description of Local Area Networks.
 - (iii) List and briefly describe any three operations for which the Mouse may be easier to use than the keyboard.
 - (iv) Define the following terms:
 - a. Memory cell
 - b. Cycle Time (in terms of computer memory)
 - c. Random Access Memory
 - (v) Define "Workgroup". Write briefly about any two types of software used in workgroup computing.
 - (vi) Briefly write the benefits of using E-mail.
 - (vii) What are the basic elements of a Data Communication System?
 - (viii) How can computers be useful in Education?
 - (ix) What are the benefits of using computers in weather forecasting?
 - (x) Define "ROM". List any two types of ROM used in computers.
 - (xi) What are Computer Instructions? Briefly explain.
 - (xii) Consider the following worksheet from MS-Excel:

	A	В	C	D	E	F	G
1	Name	Basic Pay	Conv. Allc.	Medical Allc.	Gross Pay	Income Tax (5% of Basic Pay)	Net Pay (Gross Pay – Income Tax)
2	Employee A	15000	2400	1500			

Write formula in E2, F2 and G2 to calculate the Gross pay (total pay), Income tax (@ 5% of basic pay) and Net pay, respectively.

- (xiii) Briefly state any three basic rules or conventions for file and folder names in MS-Windows.
- (xiv) A small college is considering to use computers for accounts. Frequent calculation such as making totals, calculating averages, etc are involved in accounting. Which application program would you suggest the college should use to keep accounts data? What would be the benefits of using that application program?
- (xv) Briefly describe any three benefits of Internet.
- (xvi) Qasim lives at a small village and is one of the few educated persons there. People frequently come to him to write applications, letters, etc. Which computer program should Qasim use to write applications etc? What would be the benefits over handwritten applications?
- (xvii) Consider the URL: http://www.pakistan.gov.pk Briefly explain each part of the URL.

SECTION - C (Marks 21)

Note:- Attempt any THREE questions. All questions carry equal marks. (3 x 7 = 21)

- Q. 3 What are Network Topologies? Name and describe any three network topologies with the help of diagrams.
- Q. 4 Define "Modulation". Name and describe any three forms/methods of modulation with the help of diagrams.
- Q. 5 Draw a diagram of a microprocessor showing the interconnection between its various components e.g. busses, registers, etc and briefly explain any four parts of it (busses, registers, instruction decoder etc) 3+4=7
- Q. 6 What is a "Computer Virus"? List three ways in which viruses can spread. Also mention three precautionary steps you can take to protect your computer from the threat of viruses.
 1+3+3=7