

Q. 1

Time allowed: 20 Minutes

## COMPUTER SCIENCE HSSC-I SECTION - A (Marks 15)

### **REVISED SYLLABUS**

Version Number 1 8 8 3

Note: Section – A is compulsory. All parts of this section are to be answered on the separately provided OMR Answer Sheet which should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Answer Sheet according to the instructions given there. Each part carries one mark.

Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR

		_		_							
1)	A rec	ord is also called		in RDBMS.							
	A.	Field	В.	Tuple	C.	Entity	D.	Attribute			
2)	What	What is the 'key field' called that is used in a relationship between tables whose value matches a									
	prima	primary key in another table?									
	A.	Alternate key	B.	Foreign key	C.	Candidate key	D.	Secondary key			
3)	Whic	Which of the following is NOT a productivity software?									
	A.	Word process		B.	Graphics softw	are					
	C.	Spreadsheet		D.	Windows						
4)	Whic	Which of the following is a pointing input device?									
	A.	Scanner	B.	Joystick	C.	Keyboard	D.	Plotter			
5)	Whic	Which of the following is a temporary memory?									
	A.	Flash	B.	PROM	C.	ROM	D.	RAM			
6)	1 Kilo	Byte =	Byte								
	A.	2 <sup>30</sup>	B.	2 <sup>40</sup>	C.	2 <sup>10</sup>	D.	2 <sup>20</sup>			
7)	Which of the following devices has sequential access to data?										
	A.	Magnetic tape	B.	Chip memory	C.	Magnetic disk	D.	Optical disk			
8)	Where are registers located?										
	A.	Inside DVD			B.	Inside CPU					
	C.	Inside Hard di	sk		D.	Inside m <b>e</b> mory					
9)	Wher	Where are the results of ALU operations transferred?									
	A.	Data register		B.	Accumulator re	egister					
	C.	Counter regist		D.	Base regi <b>s</b> ter						
10)	Whic	Which of the following provides interface to a computer network?									
	A.	Port	B.	BIOS	C.	NIC	D.	Mod <b>e</b> m			
11)	DSL stands for:										
	A.	Direct subscri	ber line		B.	Digital sub <b>s</b> crit	Digital sub <b>s</b> criber line				
	C.	Direct service			D.	Data service li					
12)	In wh	ich communication	on mode					s but not simultaneous	sly?		
	A.	Full-duplex	B.	Synchronous		Simplex	D.	Half-duplex			
13)	Whic	h of the following		ission modes use							
	A.	Simplex	B.	Duplex	C.	Synchronous	D.	Asynchronous			
14)	Whic		directly	above the earth's	-						
	A.	LEO	B.	GALILEO	C.	GEO	D.	MEO			
15)	Duplication of data in different files is called:  A. Data redundancy  B. Data deficiency										
	A.	•				Data deficienc	y				
	C.	Data inconsist	tency		D.	Data overflow					



# COMPUTER SCIENCE HSSC-I



Time allowed: 2:40 Hours

Revised Syllabus

Total Marks Sections B, C and D: 60

book.

NOTE:

The Questions of sections B, C and D are to be answered 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 21)

Note: Section - B consists of following topics of the syllabus:

- 1. Overview of Computer System
- Computer Memory

3. Central Processing Unit

4. Inside System Unit

### Q. 2 Answer any SEVEN parts. All parts carry equal marks.

 $(7 \times 3 = 21)$ 

- (i) Give any three application areas of supercomputers.
- (ii) What is IoT (Internet of Things)?
- (iii) Write any three differences between DRAM and SRAM.
- (iv) Why data access time in sequential access devices is more than that in random access devices?
- (v) Give any three advantages of using flash memory.
- (vi) What is the function of control unit in a computer?
- (vii) Give any three differences between CISC and RISC architectures.
- (viii) What is the function of BIOS in a computer?
- (ix) What is the function of SATA interface on the motherboard?
- (x) Give any three differences between SIMM and DIMM.

#### SECTION - C (Marks 21)

Note: Section - C consists of following topics of the syllabus:

- 5. Network communication Protocol
- Wireless Communication

7. Database Fundamentals

8. Database Development

### Q. 3 Answer any SEVEN parts. All parts carry equal marks.

 $(7 \times 3 = 21)$ 

- (i) Define any three basic network components.
- (ii) Give one example each of simplex, half-duplex and full-duplex communication modes.
- (iii) Give any three characteristics of VPN (Virtual Private Network).
- (iv) Give any three advantages of wireless networks.
- (v) What is Wi-Max?
- (vi) Give any three limitations of mobile communication systems.
- (vii) Give any three advantages of DBMS over file management system.
- (viii) A company sells many products to their customers. There are many suppliers who supply various products. Draw an ER-diagram of entities; Company, Supplier and Customer.
- (ix) Differentiate between cardinality and modality.
- (x) Give any three advantages of using Forms in Access database.

#### SECTION - D (Marks 18)

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

 $(3 \times 6 = 18)$ 

- Q. 4 What is a computer software? Explain System software and Application software in detail by giving examples.
  - What is secondary memory? Explain any two secondary memory devices in detail.

(1+5) (1+5)

Q. 6 Describe the purpose of the following types of ports in a computer system;

(2+2+2)

i. USB port

Q. 5

- ii. Fire Wire port
- ili. HDMI port
- Q. 7 What is network topology? Explain Star, Ring and Bus topologies with suitable diagrams.

(01+03+02)



Time allowed: 20 Minutes

# COMPUTER SCIENCE HSSC-I SECTION - A (Marks 15)

45

Version Number 1 8 8 8

(Old Syllabus)

Mote:	OMR	Answe	r Sheet which	should	be completed i	n the	be answered o first 20 mlnutes d. Do not use lead	and i	separately provided nanded over to the il.		
Q. <b>1</b>	Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark.										
	1.	In whi	ch of the following	y ways	can the text NOT	be aligned in the main text?					
		Α.	Right	B.	Centre	C.	Тор	D.	Left		
	2.	By de	efault, how many v	worksh	eets are present i	n MS E	xcel Workbook?				
		A.	4	В.	5	C.	2	D.	3		
	3.	The s	peed of laser prin	iter is n	neasured in:						
		Α.	Pages per min	ute		B.	Lines per minu	te			
		C.	Characters per second				Words per minute				
	4.	Anoth	ner name for mair	memo	ory is:						
		A.	Cache memor	y		B.	Primary memo	гу			
		C,	Secondary me	mory		D.	Permane <b>nt</b> me	mory			
	5.	What	What type of network is the internet?								
		A.	WAN	B.	Not a network	C.	LAN	D.	MAN		
	6.	The layer that is concerned with addressing and routing is called:					ng is called:				
		A.	Physical	В.	Transport	C.	Network	D.	Data Link		
	7.	ISDN	stands for:								
		A.	Intranet Service	es Dig	ital Network	B.	Integrated Ser	vices D	igital Network		
		C.	Internet Service	es Digi	ital Network	D.	Improved Speed Digital Network				
	8.	Start/	Stop bits are not	require	ed int	pe of t	f tr <b>a</b> nsmission.				
		Α.	Synchronous	В.	Asynchronous	C.	Digital	D.	Analog		
	9.	Many	banks provide th	e facili	ty of:						
		Α.	ATM	B.	СВТ	C.	CAD	D.	CAM		
	10.	Fetch	n, decode and exe	ecute th	ne in <mark>structions is</mark> t	he f <b>un</b> d	ction of:				
		A.	ROM	В.	сц	C,	ALU	D.	RAM		
	11.	The a	address bus is:								
		A.	Multi direction	al B.	Circular	C.	Bidirectional	D.	Unidirectional		
	12.	Input	t/Output devices a	are also	called as:						
		A.	ces		B.	Network devic	es	•			
		C.	Peripheral de	vices		D.	Central device	s			
	13.	The	capability of an o	perating	g system to run tw	o or m	ore programs at o	nce is	called:		
		A.	Multi-operatin	g		В.	Multi-paging		·		
		C.	Multi-process	ng		D.	Multi-tasking				
	14.	Softv	ware can be remo	ved/ins	serted through:						
		A.	Debugger	В.	Linker	C.	Control panel	D.	Compiler		
	15.	Whic	ch of the following	is NO	T an example of a	ntivirus	program?				
		A.	Dr. Solomon	В.	Chernobyl	C.	Norton	D.	McAfee		



# COMPUTER SCIENCE HSSC-I

(Old Syllabus)

Time allowed: 2:40 Hours

Total Marks Sections B. C and D: 60

NOTE:

The Questions of sections B, C and D are to be answered 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 21)

Note:	Section – B consists of following topics of the syllabus:							
	a.	Basic concepts of IT	b.	Data Communication				
	C.	Hardware and System Software	d.	Information Networks				
	e.	Applications and use of computers						

#### Q. 2 Answer any SEVEN parts. All parts carry equal marks.

(7 x3 = 21)

- (i) Briefly explain the role of main memory in a computer system.
- (ii) Differentiate between CAD and CAM.
- (iii) How can computer be useful in education?
- (iv) Distinguish between static memory devices and dynamic memory devices.
- Write two advantages of using plotter over printers. Also write one drawback of plotter (v)
- (vi) What is groupware and workgroup computing?
- (vii) What is bandwidth? Differentiate between Narrowband and Broadband.
- (viii) What are the advantages of Dedicated Server Networks over Peer to Peer Networks?
- Define system software. Briefly describe any two of its categories. (ix)
- (x) In which type of network do we use TCP/IP and why?

### SECTION - C (Marks 21)

Note:	Section – C consists of following topics of the syllabus:						
	a.	Security copyright and the law	b.	Operating systems (Windows)			
	C.	Word processing (using MS-Word 2000)	d.	Spreadsheet (Using MS-Excel 2000)			
	e.	Internet, Internet browsing and E-mail					

#### Q. 3 Answer any SEVEN parts. All parts carry equal marks.

 $(7 \times 3 = 21)$ 

- (i) How can we protect our data from viruses?
- (ii) What is copyright? What types of works are protected by copyright?
- (iii) Distinguish between Internet Explorer and Windows Explorer.
- (iv) Briefly Explain any three important features of Word Processor.
- (v) What are the rules to set names for file and folder in Windows?
- (vi) Distinguish between insert and overtype modes for entering text in a Word Processor.
- Differentiate between a formula and a function in spread sheet programs. (vii)
- (viii) What do you know about web page and web server?
- Define E-mail. Give some limitations of using E-mail. (ix)
- Mention any three application areas where spread sheet can be useful. (x)

### SECTION - D (Marks 18)

Note:	Attem	$(3 \times 6 = 18)$						
Q. 4	Descri	(2+2+2)						
Q. 5	What a	(1.5+4.5)						
Q. 6	Explain		(2+2+2)					
	i.	Word '	Wrap	ii.	The <b>sa</b> urus	lii.	Headers and Footers	:
<b>Q</b> . 7	(a)	(2)						
	(b)	(2+2)						
		i.	Computer Sim	ulation	ii.	Weat	her forecast	