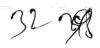

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	1.	Which part of computer system is responsible to perform arithmetic and logic											Mouse	\bigcirc	Central Processing Unit	\bigcirc	Monitor
	2.		nterm	rediat	te forn	n between	hardw	are	$\overline{\bigcirc}$	Sharew	/are	0	Firmware	\bigcirc	Freeware	0	Trial-ware
	3.	and software is:							0	1024 ⁴ b	oytes	0	1024 ² bytes	\bigcirc	1024 ⁶ bytes	\bigcirc	1024 bytes
	Which of the following topologies is the most								0	Tree to	pology	0	Bus topology		Ring topology	\bigcirc	Mesh topology
	5.	suitable to make network of 5 computers? The data transfer instruction MOV A, B will:							0	Load values of register A to register B			Move values of register B to register A	0	Move values of register A to register B	0	Move values of A & B to Memory Buffer Register
	6.	STOP and Halt are examples of:							0	Zero ad instruct		0	One address instruction format	0	Two address instruction format	0	Three address instruction format
	Which of the fo 7. system unit is Alternating Current					wing components of sponsible to convert Current?			0	Central Processing Unit		0	Hard disk	0	Power supply	0	Motherboard
	8.					smission po			\bigcirc	Paralle	l port	0	LPT 1	0	USB port	0	Firewire port
	9.				f OSI tocol?	Model uses	s whic	h of	0	X.25 & Ethern		\bigcirc	Point to point protocol	0	Net BIOS	0	TCP / IP
	10.		acket			etwork, ea	ch pa	cket	0	Protoco sender addres sequer numbe	ss, nce	0	Sender address, destination address, sequence number	0	Protocol, sender address, destination address	0	Protocol, sender address
	11.	It is an example of line of sign communication:								WiMAX	<	\bigcirc	WiFi	\bigcirc	Infrared	0	Bluetooth
	12.				ation pr	otocol (WA	.P) is ι	used	0	Provide interne access wireles device	et s to ss	0	Modify signal frequency	0	Convert messages from text to electronic signal	0	Increase signal strength
	13.	Crea	ting u	sers i	n RDB	MS is the ta	ask of:		0	DDL		0	DML	\bigcirc	DCL	\bigcirc	DXL
	14.	STUDE	NT		helps	is an exa	ample	of:	0	Unary relation	nship	0	Binary relationship	0	Ternary relationship	0	Modality
	15.	Whic	ch of t	he fol	llowing	data types	can s	store	, ()	Currer	ncy	0	Date and time		Memo	0	Text
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Page 1 of 1

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COMPUTER SCIENCE HSSC-I

Time allowed: 2:40 Hours Total Marks Sections B and C: 60 NOTE: The Questions of sections B and C 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 36) Answer any TWELVE parts. All parts carry equal marks. Q. 2 $(12 \times 3 = 36)$ (i) Differentiate between Shareware and Freeware. (ii) Briefly explain the following types of computers: (a) Mini computer (b) Micro computer Write any three differences between volatile and non-volatile memory. (iii) What is RAM? Write two differences between static and dynamic RAM. (iv) (V) Label the following diagram which depicts the working of Arithmetic and Logic Unit. ALU Output Control Inpu (vi) Name four special purpose registers and explain working of any one of these. (vii) Briefly explain any two types of system Buses. (viii) Write down the importance of cooling system in computer system. (ix)Label the following diagram of Coaxial cable. (x)Write down the uses of the following database objects provided by MS-Access: a) Table b) Query c) Report Describe the following types of ROM: (xi) b) EPROM a) PROM (xii) Write down any three differences between WiFi and WiMAX. What is GPS? Write its importance in wireless communication. (xiii) (xiv) A college has many departments and one department must belong to one college. Observe the situation carefully and draw the following: a) E-R diagram b) Identify the cardinalities Transform the following E-R diagram to the Relational Schema (xv)COUNTRY **PRESIDENT** a) Transform Entities. b) Transform Relationship (xvi) What is 'query'? Write its purpose with one example. SECTION - C (Marks 24) Note: Attempt any THREE questions. All questions carry equal marks. $(3 \times 8 = 24)$ Q. 3 Describe the following Motherboard components. (2x4)BIOS (a) Memory Slot (b) Disk controller (d) Expansion slot What is OSI Model? Write down the protocols and devices used on each layer: (1+7)Sr. No. Protocol Layer Devices iii iv vii Describe the following output devices. (2x4)LCD monitor a) b) **Dot Matrix Printer** c) Inkiet Printer d) Plotter Q. 6 A doctor sees many patients and a patient may have many doctors. Many doctors may consult on a test and recommend it. A doctor can recommend many tests to a patient. Patients have a token number, name and age. Doctor has name, qualification, specialization and contact no. likewise test has name, date, time and result of

List attributes for each entity

test. Patient, doctor and test have unique identifiers.

Observer the above scenario and answer the following:

b)

Draw an E-R diagram and assign cardinalities

List the entities

C)