SECTION-A   (Marks 13)

Time Allowed: 20 Minutes

Q. 1.   **Fill the relevant bubble for each part on bubble sheet. Each part carries one mark.**

1)	Which of the following is productivity software?						
	A	Spreadsheet	B	Device Driver	C	Windows 7	D	Compiler
2	Choose the best option for ATM display?						
	A	Mouse	B	Joy stick	C	Touch Screen	D	Pointing Stick
3	One of following is the example of Volatile Memory.						
	A	ROM	B	RAM	C	PROM	D	EPROM
4	Registers are located in:						
	A	Hard disk	B	ROM	C	RAM	D	Processor
5	Which part of computer decodes instructions?						
	A	ALU	B	Main Memory	C	MBR	D	Control Unit
6	It provides interface to Network:						
	A	Modem	B	NIC	C	Port	D	BIOS
7	External Devices are attached with computer through:						
	A	Expansion slot	B	Memory slot	C	Disk Controller	D	Port
8	Which of these cables transmits data using light waves?						
	A	Twisted pair	B	Fiber optic	C	Coaxial	D	Phone line
9	Which topology will be used for a wide area network?						
	A	Bus	B	Mesh	C	Star	D	Ring
10	What is used to create webpages?						
	A	HTTP	B	WAP	C	TCP	D	HTML
11	An attribute is also called:						
	A	Record	B	Entity	C	Field	D	Relation
12	Which key is used in both parent and child tables?						
	A	Candidate Key	B	Foreign Key	C	Alternate Key	D	Secondary Key
13	What is the default value of number of characters for Text data type in Access?						
	A	30	B	40	C	50	D	60

AJK Board HSSC-I Examination

Computer Science Model Question Paper

(For Annual Exam 2024)

SECTION-B   (Marks 42)

Q. 2 Attempt any 14 parts. All parts carry equal marks.   (14x3=42)

I.	Write a brief note on cooling system used in the computer.
II.	Give any three uses of plotters.
III.	Define port. Name 2 ports used in computer.
IV.	Define licensed software.
V.	Describe the working of cache memory.
VI.	Differentiate between op-Code and Operand with example.
VII.	Write the function of BIOS in the computer.
VIII.	Describe the working of ALU with the help of an example.
IX.	Define OSI Model.
X.	Briefly describe IP Addressing.
XI.	What is the purpose of Secondary Memory?
XII.	Define Global Positioning System (GPS).
XIII.	Write four uses of Infrared.
XIV.	What is meant by line of sight communication?
XV.	Describe relational database.
XVI.	Why Data Manipulation Language (DML) is used in database?
XVII.	Describe various ways of deleting records in a table.
XVIII.	Differentiate between update and append query.
XIX.	A branch of a company has many departments and each department is managed by a manager. Draw an ER diagram and identify cardinality for the said situation.
XX.	Specify the suitable data types for REGNO, ROLL NO, STDNAME, CLASS and DOB. Which attribute will be suitable for primary key

REGNO	ROLL NO	STDNAME	CLASS	DOB
HSSC1/23	1	SAJID	XI	12-MAY-96
HSSC2/23	2	USMAN	XII	28-DEC-97

SECTION-C   (Marks 20)

Note: Attempt any 04 question. Marks of each question are given within brackets.
(5x4=20)

Q3.   Define Port. Explain Serial and Parallel Ports.   (1+2+2)

Q4.   What is communication device? Describe Router and Gateway.   (1+2+2)

Q5.   Why plotters are used? Briefly explain their types.(1+2+2)

Q6.   Explain IDE and SATA Interfaces.   (2.5+2.5)

Q7.   Define Optical Disk. Explain its two types.   (1+2+2)

Q9   Explain any 05 data types of database with their sizes. (1 x 5 = 5)

Q10.   Normalize the following table up to 2nd and 3rd normal form. Table is already in 1st normal form.

STUD-ID	COURSEID	S-NAME	COURSE	GRADE	TEACHER	T-CITY
1	XI	JUNAID	ENGLISH	A	USMAN	KOTLI
1	XI	JUNAID	URDU	B	HARIS	LAHORE
2	XII	HAIDER	HISTORY	A	JAMEEL	MIRPUR
2	XII	HAIDER	URDU	B	HARIS	LAHORE
3	ADA	FAIZAN	ENGLISH	A	USMAN	KOTLI
3	ADA	FAIZAN	ECONOMICS	B	MAJID	MIRPUR

Note: 25% Applied based question are taken from following chapters.

MCQs.   Chap1, 5, 6   (one question from each chapter,   total=03 questions)
Short Qs.   Chap 1,6,7,8 (one question from each chapter,   total= 04 questions)
Long Qs.   Chap 7   (only one question)