AE (Computer Science) Master Question Set with Answer Keys

1)	What is the binary equivalent of the decimal number 23?		
A)	10110	B)	11011
C)	10111	D)	None of these
Correct Answer:	C		
2)	In C language, which of the following special characters is allowed in a variable name?		
A)	* (asterisk)	B)	/ (slash)
C)	_ (underscore)	D)	None of these
Correct Answer:	C		
3)	What is a pointer in C language?		
A)	Pointer is a fixed memory location that manipulates a given data item	B)	Pointer is a variable that represents the location of a data item
C)	Pointer is a register that points to the required mathematical operand	D)	None of these
Correct Answer:	B		
4)	Which of the following is a correct way of including a comment in C language?		
A)	/*comment*/	B)	*/comment*/
C)	/*comment/*	D)	*/comment/*
Correct Answer:	A		
5)	When you compare two strings using strcmp() function in C language, what is the value returned when the two strings are identical?		
A)	+1	B)	-1
C)	0	D)	COMP
Correct Answer:	C		
6)	Which of the following functions in C language is used to reposition the file pointer to the beginning of the file?		
A)	begin()	B)	rewind()
C)	start()	D)	goback()
Correct Answer:	B		
7)	What is the hexadecimal equivalent of the decimal number 20.5?		
A)	14.8	B)	14.CCC
C)	14.4	D)	14.33333
Correct Answer:	A		
8)	Which of the following represents the correct hierarchy (highest to lowest) of arithmetic operations in C language?		
A)	/*+-	B)	+*-/
C)	-/+*	D)	/+*-
Correct Answer:	A		
9)	What is the name of the computer architecture where a "stored-program computer" cannot carry out an instruction fetch and a data operation at the same time?		
A)	Charles Babbage Architecture	B)	Von Neumann Architecture
C)	Von Goring Architecture	D)	Herman Hollerith Architecture
Correct Answer:	B		

10)	Who is the inventor who developed a mechanical tabulator and also the founder of the company known today as IBM?		
A)	Charles Babbage	B)	Von Neumann
C)	Von Goring	D)	Herman Hollerith
Correct Answer:	D		
11)	Which of the following is the name used for half-a-byte?		
A)	Bit	B)	Nibble
C)	Bittin	D)	None of these
Correct Answer:	B		
12)	Which of the following is an output device for a computer?		
A)	Light pen	B)	Computer mouse
C)	Joy stick	D)	None of these
Correct Answer:	D		
13)	What does RAM stand for?		
A)	Read Aligned Memory	B)	Random Access Memory
C)	Randomly Aligned Memory	D)	Reusable Anodized Memory
Correct Answer:	B		
14)	What is the actual number of bytes in a megabyte?		
A)	1024,000	B)	1000,000
C)	1048,576	D)	None of these
Correct Answer:	C		
15)	A digital circuit that performs binary addition bit by bit is called _____		
A)	Serial adder	B)	Bit adder
C)	Bin-Bit adder	D)	Singular adder
Correct Answer:	A		
16)	Where is BIOS located in the personal computer?		
A)	Hard disk	B)	CD ROM
C)	EPROM	D)	RAM
Correct Answer:	C		
17)	Which of the following is true with VGA connector?		
A)	15 pins arranged in 3 rows	B)	16 pins arranged in 2 rows
C)	15 pins arranged in 2 rows	D)	16 pins arranged in 3 rows
Correct Answer:	A		
18)	A parallel port is also known as _____		
A)	Printer port	B)	Centronics port
C)	Both A and B	D)	None of these
Correct Answer:	C		

19)	Which of the following commands in DOS can be used to find out the memory available?		
A)	MEM	B)	HIMEM
C)	AVAIL MEM	D)	None of these
Correct Answer:	A		
20)	Traditionally, what is the size of a sector on a hard disk?		
A)	256 KB	B)	512 KB
C)	2048 KB	D)	1024 KB
Correct Answer:	B		
21)	Which of the following commands in DOS will take you to the root directory, irrespective of where you are?		
A)	CD..	B)	CD\
C)	CD/	D)	CD Root
Correct Answer:	B		
22)	Which of the following can be used to store electrical charge?		
A)	Resistor	B)	Diode
C)	Transistor	D)	None of these
Correct Answer:	D		
23)	Which of the following can be used to ensure uninterrupted power supply?		
A)	Thermal powered external jacket	B)	Voltage stabilizer
C)	UPS	D)	Solar powered resistor
Correct Answer:	C		
24)	Which of the following will allow DOS programs to store data in extended memory?		
A)	EXTMEM.SYS	B)	HIMEM.SYS
C)	DOSMEM.SYS	D)	MEM.SYS
Correct Answer:	B		
25)	What is the typical size of sector on a CD or DVD?		
A)	256 KB	B)	512 KB
C)	1024 KB	D)	2048 KB
Correct Answer:	D		
26)	What does USB stand for?		
A)	User Simulated Bin	B)	Universal Serial Bus
C)	Universal System Bin	D)	Universal System Bus
Correct Answer:	B		
27)	What is a program?		
A)	It is a sequence of instructions	B)	It is a set of commands that guide the user from beginning to end
C)	It is a code that is resident in the three registers and manage the resources	D)	None of these
Correct Answer:	A		

28)	Banker's algorithm developed by Edsger Dijkstra is used as a _____		
A)	Deadlock manipulation algorithm	B)	Deadlock avoidance algorithm
C)	Deadlock distribution algorithm	D)	None of these
Correct Answer:	B		
29)	Which of the following allows access to multiple users?		
A)	Multiuser DOS	B)	Unix
C)	Windows NT	D)	All the above
Correct Answer:	D		
30)	What is a RISC computer?		
A)	It is a computer using Revised instruction set computing	B)	It is a computer using Reduced instruction Series comparison
C)	It is a computer using Reduced instruction set computing	D)	It is a computer using Redundant instruction set computing
Correct Answer:	C		
31)	What is backward or downward compatibility?		
A)	It is the ability of a product to work with input generated by an older product or technology such as a legacy system	B)	It is the ability of a product or a legacy system to work with input generated by a later or future version of product or technology
C)	Both A and B	D)	None of these
Correct Answer:	A		
32)	What is the main job of an operating system?		
A)	Generate resources	B)	Exhaust resources
C)	Manage resources	D)	None of these
Correct Answer:	C		
33)	Which of the following commands in DOS will create a new directory?		
A)	Mkdir	B)	MD
C)	CreatD	D)	CD
Correct Answer:	Both A and B are correct		
34)	The process of physically organizing the contents of the mass storage device used to store files into the smallest number of contiguous regions is known as		
A)	Contiguity	B)	Defragmentation
C)	Serialization	D)	None of these
Correct Answer:	B		
35)	What is TSR program?		
A)	Testing System Redirect program	B)	Terminate Streaming Redirect program
C)	Terminate Stay Resident program	D)	None of these
Correct Answer:	C		
36)	Which of the following in DOS automatically execute commands on system startup?		
A)	Autoexec.exe	B)	Autoexec.com
C)	Autoexec.bat	D)	None of these
Correct Answer:	C		

37)	What is config.sys?		
A)	It is a special ASCII text file that contains user-accessible setup or configuration directives	B)	It is a special hexadecimal file in machine language that enables the user to modify the configuration directives
C)	It is a special ASCII text file that overrides command.com leading to automatic deletion of configuration directives	D)	None of these
Correct Answer:	A		
38)	Which of the following symbols is used to separate more than one command in the same line in Unix?		
A)	, (comma)	B)	/ (slash)
C)	: (colon)	D)	; (semicolon)
Correct Answer:	D		
39)	Which of the following commands in Unix displays the contents of a file or standard input to all logged-in users?		
A)	Disp All	B)	Wall
C)	Show All	D)	None of these
Correct Answer:	B		
40)	Which is the directory in Unix, where all the aliases created by a user, including his login directory are kept?		
A)	/usr	B)	/alias
C)	/log	D)	None of these
Correct Answer:	A		
41)	What is a kernel?		
A)	It is a fundamental part of a modern computer's operating system which manages the I/O system	B)	It is a fundamental part of a modern computer's operating system which protects the primary memory locations so that the operating system is overwritten
C)	It is a fundamental part of a modern computer's operating system which connects the primary, secondary and auxiliary memories of a computer	D)	None of these
Correct Answer:	A		
42)	Which of the following systems allows two parties to communicate with each other simultaneously?		
A)	Half duplex	B)	Full duplex
C)	Co-duplex	D)	None of these
Correct Answer:	B		
43)	An address that sends outgoing signals back to the same computer for testing is called _____		
A)	Looparound address	B)	Loopdown address
C)	Selfloop address	D)	Loopback address
Correct Answer:	D		
44)	Which of the following provides the interaction between the user and Unix system?		
A)	Shell	B)	vi editor
C)	config.sys	D)	none of these
Correct Answer:	A		

45)	Which of the following TCP/IP protocols is used for transferring electronic mail messages from one computer to another?		
A)	SMTP	B)	UFTP
C)	FTPS	D)	All the above
Correct Answer:	A		
46)	Which is the Layer 1 in the OSI model?		
A)	Data Link Layer	B)	Physical layer
C)	Application layer	D)	None of these
Correct Answer:	B		
47)	A local area network in which all nodes are directly connected to a common central computer is called _____		
A)	Bus network	B)	Ring network
C)	Star network	D)	Mesh network
Correct Answer:	C		
48)	How many characters can be transmitted in one minute at a speed of 1200 BPS, if it takes 8-bits to represent one character?		
A)	150	B)	900
C)	9000	D)	None of these
Correct Answer:	C		
49)	Checksum can be used to verify _____		
A)	Data authenticity	B)	Data integrity
C)	Both A and B	D)	None of these
Correct Answer:	B		
50)	Which of the following devices facilitates digital to analog conversion at the start of a long distance transmission		
A)	Bridge	B)	Router
C)	Modem	D)	None of these
Correct Answer:	C		
51)	Transferring a file or data from your computer to another computer is known as _____		
A)	Downloading	B)	Uploading
C)	Transformation	D)	Modification
Correct Answer:	B		
52)	Converting analog signal to digital signal is called _____		
A)	Modulation	B)	Multiplexing
C)	Demodulation	D)	Redigitalation
Correct Answer:	C		
53)	What is the basic purpose of decision support systems?		
A)	Help managers draw most appropriate graphs	B)	Help managers make right business decisions
C)	Help managers find their way around tight budgets	D)	None of these
Correct Answer:	B		

54)	What is it called when jobs are set up so they can be run to completion without human interaction?		
A)	Batch processing	B)	Batch routing
C)	Automatic execution	D)	Automatic routing
Correct Answer:	A		
55)	A machine that perceives its environment and takes actions that maximize its chances of success is considered to be _____		
A)	Robot	B)	Intelligent
C)	Human	D)	Drone
Correct Answer:	B		
56)	What is cognitive science?		
A)	It is an interdisciplinary study of the mind and its processes	B)	It is the science of recognizing scientific patterns in non-living beings
C)	It is an interdisciplinary science of re constructing broken-down machines	D)	None of these
Correct Answer:	A		
57)	Which of the following tests is generally used to test of a machine's ability to exhibit intelligent behavior?		
A)	Multiple choice test	B)	Turing test
C)	Conon test	D)	None of these
Correct Answer:	B		
58)	What is a tuple?		
A)	A record	B)	A field
C)	A table	D)	A database
Correct Answer:	A		
59)	The organization of data as a blueprint of how a database is constructed is known as _____		
A)	Data dictionary	B)	Metadata
C)	Schema	D)	All the above
Correct Answer:	C		
60)	What is the decimal equivalent of the hexadecimal number 11F?		
A)	288	B)	287
C)	286	D)	290
Correct Answer:	B		
61)	What is the hexadecimal equivalent of the decimal number 65?		
A)	41	B)	40
C)	4A	D)	None of these
Correct Answer:	A		
62)	How many characters are represented in ASCII code?		
A)	127	B)	128
C)	255	D)	256
Correct Answer:	B		

63)	How many bits are used in extended ASCII code?		
A)	7	B)	8
C)	16	D)	None of these
Correct Answer:	B		
64)	What is the code (Unicode) for ₹ ?		
A)	20D9	B)	20c8
C)	20B9	D)	None of these
Correct Answer:	C		
65)	What is metadata?		
A)	It is data about data	B)	It is a very large amount of data
C)	It is data about a very large organization	D)	None of these
Correct Answer:	A		
66)	What is $1010_2 + 111_2$?		
A)	10001_2	B)	10101_2
C)	10011_2	D)	None of these
Correct Answer:	A		
67)	Which of the following are the minority carriers in n-type semiconductor?		
A)	Holes	B)	Electrons
C)	Both A and B	D)	None of these
Correct Answer:	A		
68)	A semiconductor that is doped is called _____		
A)	Intrinsic semiconductor	B)	Extrinsic semiconductor
C)	Dopoductor	D)	None of these
Correct Answer:	B		
69)	A pure semiconductor without any dopant is called _____		
A)	i type semiconductor	B)	undoped semiconductor
C)	intrinsic semiconductor	D)	all the above
Correct Answer:	D		
70)	Which of the following is a moving part of a rotary electrical switch that periodically reverses the current direction between the rotor and the external circuit in a motor?		
A)	Armature	B)	Stator
C)	Commutator	D)	None of these
Correct Answer:	C		
71)	Which of the following converts chemical energy into electrical energy?		
A)	Solar cell	B)	Dynamo
C)	Leclanche cell	D)	None of these
Correct Answer:	C		

72)	How many memory locations can be accessed by a 10 bit address?		
A)	65536	B)	32768
C)	131072	D)	None of these
Correct Answer:	A		
73)	Which of the following is the table that can be used to tell whether a propositional expression is true for all legitimate input values?		
A)	Propositional table	B)	Truth table
C)	Legitimate table	D)	None of these
Correct Answer:	B		
74)	Which of the following is a disadvantage of storing data on a magnetic tape?		
A)	The data can be accessed only serially	B)	Tape must wind an average of one-third the tape length to move from one arbitrary data block to another
C)	Both A and B	D)	None of these
Correct Answer:	C		
75)	Which of the following is used for defining data structures, especially database schemas?		
A)	Data definition language	B)	Query language
C)	Cobol language	D)	None of these
Correct Answer:	A		
76)	During a "Sale Period", Shoppers Stop announces a 20% discount on the price of all of its products. This results in an increase of the sales volume by 25%. What is the net effect on the revenue because of the discount?		
A)	Increase of 5%	B)	Decrease of 5%
C)	Increase of 10%	D)	Revenue remains constant
Correct Answer:	D		
77)	The worth of a transformer depreciates at the rate of 5% every year as compared to its value in the previous year. If the present worth is Rs. 60,00,000, what was its worth when the transformer was bought by the firm 4 years back (the answers are rounded off to the nearest thousand)?		
A)	Rs. 51,08,000	B)	Rs. 72,93,000
C)	Rs. 51,44,000	D)	Rs. 48,87,000
Correct Answer:	B		
78)	What is the next number of the series: 2, 6, 14, 26, 42, 62, …		
A)	82	B)	80
C)	86	D)	None of the above
Correct Answer:	C		
79)	Which of the following countries is a member of the United Nations Security Council?		
A)	Republic of China	B)	People's Republic of China
C)	India	D)	Germany
Correct Answer:	B		
80)	Identify the odd one out?		
A)	Ganga	B)	Mahanadi
C)	Godavari	D)	Krishna
Correct Answer:	C		

81)	The capital of Assam is		
A)	Guwahati	B)	Dispur
C)	Tinsukia	D)	None of the above
Correct Answer:	B		
82)	The sum of two numbers is 40 and the difference is 12. What is the value of the smaller number of the two?		
A)	14	B)	26
C)	12	D)	10
Correct Answer:	A		
83)	Who succeeded Morarji Desai as the Prime Minister of India?		
A)	Indira Gandhi	B)	Rajiv Gandhi
C)	Charan Singh	D)	None of the above
Correct Answer:	C		
84)	The minimum educational qualification to contest for the post of member of Legislative Assembly in any state of India is		
A)	Graduate	B)	Post Graduate
C)	SSLC or its equivalent	D)	None of these
Correct Answer:	D		
85)	A circular field has a diameter of 14 meters. The field is divided in to four separate quadrants. What is the cost of fencing all the four quadrants at Rs. 100 per meter?		
A)	Rs. 10,000	B)	Rs. 2500
C)	Rs. 7200	D)	Rs. 4400
Correct Answer:	A		
86)	A solid cube with each side being of length 8 inches was painted violet, indigo and yellow on pair of opposite faces. It is then cut into 1 inch cubes. How many of the small one – inch cubes have exactly 4 faces painted?		
A)	16	B)	8
C)	4	D)	None of these
Correct Answer:	D		
87)	The national game of India is		
A)	Cricket	B)	Football
C)	Kabaddi	D)	Hockey
Correct Answer:	D		
88)	Victoria Terminus can be found at		
A)	Mumbai	B)	Bangalore
C)	Chennai	D)	Kolkata
Correct Answer:	A		
89)	If you cut a bar magnet into half, the pole strength of each piece		
A)	Becomes half	B)	Remains the same
C)	Becomes double	D)	Becomes zero
Correct Answer:	B		

90)	Identify the correct combination?		
A)	Gol Gumbaz – Hassan	B)	Gomateshwara statue – Shravan Belagola
C)	Bannerghatta National Park – Hubli	D)	Lalbagh - Gulbarga
Correct Answer:	B		
91)	Who was the first vice president of India?		
A)	Dr. Rajendra Prasad	B)	Sarvapalli Radhakrishnan
C)	Hamid Ansari	D)	R. Venkatraman
Correct Answer:	B		
92)	Two dice are tossed. The probability that the total score is a multiple of 3 is:		
A)	(1/6)	B)	(1/3)
C)	(1/2)	D)	(7/9)
Correct Answer:	B		
93)	A 1 kilometre long train passes through a tunnel of 2 kilometre length at a speed of 1 kilometre per minute. What will be the minimum time taken for the train to inside the tunnel completely?		
A)	1 minute	B)	2 minutes
C)	3 minutes	D)	4 minutes
Correct Answer:	B		
94)	If the radius of a circle is decreased by 6%, the area of the circle		
A)	Decreases by 12.36%	B)	Decreases by 11.64%
C)	Does not change at all	D)	None of the above
Correct Answer:	B		
95)	The total of the ages of Amar, Akbar and Anthony is 80 years today. If Amar's age is 25 today, what was the total of the ages of Akbar and Anthony three years ago?		
A)	49 years	B)	55 years
C)	46 years	D)	None of the above
Correct Answer:	A		
96)	The telephone was invented by		
A)	Alexander Graham Bell	B)	J. Kepler
C)	D. Rutherford	D)	James Chadwick
Correct Answer:	A		
97)	Consider a ray standing on a line. The sum of the two adjacent angles is		
A)	Greater than a straight angle	B)	Less than a straight angle
C)	Equal to a straight angle	D)	None of the above
Correct Answer:	C		
98)	A man's basic pay for 40 hours' week is Rs. 200. Overtime is paid at 25% of the basic rate. In certain week, he has worked overtime and his total earning is Rs. 300. He therefore, worked for a total of (in hours)		
A)	52	B)	56
C)	58	D)	62
Correct Answer:	B		

99)	Who has been the youngest person to have ever become a Chief Minister of any state in India?		
A)	H D Kumaraswamy	B)	Akhilesh Yadav
C)	Mamata Bannerjee	D)	Omar Abdullah
Correct Answer:	B		
100)	Louis Phillippe had given a discount of 10% of the marked price of a shirt. If the cost price of the shirt is Rs. 8000 and Louis Phillippe made a profit of 12.5 percent in the transaction, what is the marked price of the shirt?		
A)	Rs. 1100	B)	Rs. 1000
C)	Rs. 1200	D)	None of these
Correct Answer:	Question is dropped		