

<b>Id</b>	<b>1</b>
Question	$R = \{(x, y) / x, y \in I, x^2 + y^2 < 4\}$ Is a relation in I then domain of R is
A	{0,1,2}
B	{-2,-1,0}
C	{-2,-1,0,1,2}
D	{-2,-1}
Answer	C

<b>Id</b>	<b>2</b>
Question	Regular expression for all strings starts with ab and ends with bba is
A	abaa*b*bba
B	ab(a+b)*bba
C	ababb*ab*bba
D	All the above
Answer	B

<b>Id</b>	<b>3</b>
Question	Inorder traversing a tree resulted in EACKFHDBG; the preorder traversal would return
A	FAEKCDHBG
B	FAEKCDHGB
C	EAFKHDCBG
D	FEAKDCHBG
Answer	B

<b>Id</b>	<b>4</b>
Question	The set of integers Z with the binary operation * defined as $a*b = a+b+1$ for $a, b \in Z$ is a group. The identify element of this group is
A	0
B	1
C	-1
D	12
Answer	C

<b>Id</b>	<b>5</b>
Question	First operator proceeds for evaluation Boolean expression is
A	Parenthesis
B	AND
C	OR
D	NOT
Answer	A

<b>Id</b>	<b>6</b>
Question	Which output expression might indicate a product of sums circuit construction
A	$X = \overline{CH}(D + E + F)$
B	$X = CG(DE)$
C	$X = \overline{AC + BD + EF}$
D	$X = (C + D)(E + G)$
Answer	D

<b>Id</b>	<b>7</b>
Question	Which statement BEST describes the operation of negative edge triggered D flip-flop
A	The logic level at the D input is transferred to Q on NGT of CLK
B	The Q output is ALWAYS identical to the CLK input if the D input is HIGH
C	The Q output is ALWAYS identical to the D input then CLK = PGT
D	The Q output is ALWAYS identical to the D input
Answer	A

<b>Id</b>	<b>8</b>
Question	Representing $\sqrt{2}$ is a fixed point register with 2 bits for the integer part and 3 bits for the fractional part gives a round off error of most nearly.
A	-0.085709
B	0.0392
C	0.1642
D	0.2892
Answer	B

<b>Id</b>	<b>9</b>
Question	Method used to store integers is classified as
A	Sign and magnitude method
B	Twos complement method
C	Ones complement method
D	Threes complement method
Answer	B

<b>Id</b>	<b>10</b>
Question	Which of the following is not true about union?
A	Static variables can be members of a union
B	A union cannot have virtual member function
C	Union cannot use reference member
D	None of these
Answer	A

<b>Id</b>	<b>11</b>
Question	Which of the following operator is automatically overloaded when class is declared?
A	=
B	::
C	+=
D	Both = and ::
Answer	A

<b>Id</b>	<b>12</b>
Question	What will be the output of following program. Consider required header files are included. Program: <pre>int main () { int ***p, ****q; q[0][0][0][0]= 1000; p[0][0][0]=q[0][0][0][0]; cout&lt;&lt;p[0][0][0]; return 1; }</pre>
A	Garbage value
B	Address of pointer q
C	1000
D	0
Answer	D

<b>Id</b>	<b>13</b>
Question	Which of the following is true about array declaration in C++
A	Array size can be dynamically changed
B	Multidimensional arrays can be declared without specifying size except the rightmost dimension
C	Both A and B
D	None of these
Answer	B

<b>Id</b>	<b>14</b>
Question	Which of the following operator cannot be overloaded?
A	new
B	delete
C	::
D	[ ]
Answer	C

<b>Id</b>	<b>15</b>
Question	The query “select ID from student natural left outer join takes where course_id is null” will
A	Find all students who have not taken a course
B	Find all students who have taken a course
C	Find all students who have not taken a course and the course id
D	None of these
Answer	A

<b>Id</b>	<b>16</b>
Question	----- ensure that a value that appears in one relation for a given set of attributes also appears for a certain set of attributes in another relation
A	Referential-integrity constraints
B	Domain constraints
C	Assertions
D	Triggers
Answer	A

<b>Id</b>	<b>17</b>
Question	If a relation is in BCNF, then it is also in
A	1 NF
B	2 NF
C	3NF
D	All of these
Answer	D

<b>Id</b>	<b>18</b>
Question	Entity is a -----
A	Object of relation
B	Present working model
C	Thing in real world
D	Model of relation
Answer	C

<b>Id</b>	<b>19</b>
Question	4 NF is designed to cope up with
A	Transitive dependency
B	Mutivalued dependency
C	Join dependency
D	All of above
Answer	B

<b>Id</b>	<b>20</b>
Question	Which one among the following is the lowest level data model
A	Physical
B	Logical
C	External
D	None of these
Answer	A

<b>Id</b>	<b>21</b>
Question	The complexity of bubble sort algorithm
A	$O(n)$
B	$O(\log n)$
C	$O(n^2)$
D	$O(n \log n)$
Answer	B

<b>Id</b>	<b>22</b>
Question	Which one of the following permutations can be obtained the output using stack assuming that the input is the sequence 1,2,3,4,5 in that order
A	3,4,5,1,2
B	3,4,5,2,1
C	1,5,2,3,4
D	5,4,3,1,2
Answer	B

<b>Id</b>	<b>23</b>
Question	Postfix expression for $*+ab-cd$ is
A	$ab+cd-*$
B	$abcd+ -*$
C	$ab+cd*-$
D	$ab+-cd*$
Answer	A

<b>Id</b>	<b>24</b>
Question	In linear hashing formula of file load factor is
A	$1=r/(bfr * N)$
B	$1=r/(bfr+N)$
C	$1=r/(bfr-N)$
D	$1=r/(bfr * 2N)$
Answer	A

<b>Id</b>	<b>25</b>
Question	File system fragmentation occurs when
A	Unused space or single file are not contiguous
B	Used space is not contiguous
C	Unused space is non contiguous
D	Multiple files are non contiguous
Answer	A

<b>Id</b>	<b>26</b>
Question	Which of the following is coding method used to encode clock pulses and data together?
A	CDMA
B	Manchester
C	TDMA
D	WDMA
Answer	B

<b>Id</b>	<b>27</b>
Question	The packets follows predefined path in
A	Packet Switching
B	Message Switching
C	Virtual Circuits
D	Hybrid Switching
Answer	C

<b>Id</b>	<b>28</b>
Question	Match the following List-A I) Flow Control II) Error Correction III) Congestion Control IV) Quality control List-B I) Load shedding II) Piggybacking III) Expedited forwarding IV) Reed-Solomon
A	I IV II III
B	II I III IV
C	II IV I III
D	III I II IV
Answer	C

<b>Id</b>	<b>29</b>
Question	The ----- field is used to specify lifetime of packet into the network
A	NAT
B	TTL
C	QOS
D	None of these
Answer	B

<b>Id</b>	<b>30</b>
Question	----- layer is responsible for co-ordination between multiple users if they want to send the data immediately.
A	Application
B	Transport
C	Network
D	Session
Answer	D



<b>Id</b>	<b>31</b>
Question	Correct operator grammar is
A	$E \rightarrow E E +   E E -   id$
B	$E \rightarrow E + E   E - E   id$
C	$E \rightarrow + E E   - E E   id$
D	$E \rightarrow E O E   id, O \rightarrow +   -$
Answer	B

<b>Id</b>	<b>32</b>
Question	Optimized three address code representation is
A	Indirect Triples
B	Triples
C	Quadruples
D	All
Answer	A

<b>Id</b>	<b>33</b>
Question	Linked origin $\neq$ translated origin then relocation is done by
A	Compiler
B	Linker
C	Loader
D	Assembler
Answer	B

<b>Id</b>	<b>34</b>
Question	Which statement is valid for interpreter
A	It translate one instruction at a time
B	Object code is saved for future use
C	Repeated interpretation is not necessary
D	All
Answer	A

<b>Id</b>	<b>35</b>
Question	Compiler can diagnose
A	Lexical error
B	Syntax error
C	Semantic error
D	All
Answer	D

<b>Id</b>	<b>36</b>
Question	Input specification of LEX is
A	Specification of semantic actions
B	Lexical units
C	Specification of syntactical actions
D	All
Answer	B

<b>Id</b>	<b>37</b>
Question	Banker's algorithm is deadlock ----- technique.
A	Prevention
B	Avoidance
C	Recovery
D	Checking
Answer	B

<b>Id</b>	<b>38</b>
Question	----- is structure which has the description of all the files and pointers to the data blocks of files stored in it
A	File table
B	Buffer
C	User file descriptor table
D	Inode
Answer	D

<b>Id</b>	<b>39</b>
Question	In chmod command ----- represents read and execute permission.
A	4
B	5
C	6
D	7
Answer	B

<b>Id</b>	<b>40</b>
Question	Virtual memory allows
A	A program to be larger than the secondary storage
B	A program to be larger than the physical memory
C	Execution of a process without being in physical memory
D	All of above
Answer	B

<b>Id</b>	<b>41</b>
Question	----- process, is a process whose parent process is terminated
A	Zombie
B	Child
C	Orphan
D	Init
Answer	C

<b>Id</b>	<b>42</b>
Question	If however, the customer indicates that changes in requirements must be made, the ----- activity moves from the underdevelopment state into the ----- state.
A	None, installation
B	Main, maintenance
C	Run, implementation
D	Analysis, awaiting change
Answer	D

<b>Id</b>	<b>43</b>
Question	The integrity of a system can be defined as
A	Integrity = summation [(1-threat) × (security)]
B	Integrity = summation [(1-threat) - (1-security)]
C	Integrity = summation [(1-threat) × (1-security)]
D	Integrity = summation [(threat) + (1-security)]
Answer	C

<b>Id</b>	<b>44</b>
Question	Classic hardware reliability characteristics like ----- can be difficult to translate to the software domain.
A	average-time-between-failure
B	max-time-between-failure
C	median-time-between-failure
D	mean-time-between-failure
Answer	D

<b>Id</b>	<b>45</b>
Question	Grade × Weighting factor × entry point multiplier is the result of the -----
A	Coding
B	Analysis
C	Product
D	Grading factor
Answer	C

<b>Id</b>	<b>46</b>
Question	----- is the degree to which the design specification are followed during manufacturing.
A	Quality of design
B	Analysis
C	Quality of conformance
D	Coding
Answer	C

<b>Id</b>	<b>47</b>
Question	In Universal Mobile Telecommunication system (UMTS) of freedom of mobile multimedia access are located at ----- and -----
A	1920-1829MHz, 940MHZ
B	1920-1980 MHz, 2110-2170/2190 MHz
C	900Hz, 1800Mz
D	900M-1900M
Answer	B

<b>Id</b>	<b>48</b>
Question	Functions of Communication standard in EDI model is -----
A	Check the syntax of data
B	To make family family with ODEX
C	Data is to be transferred from sender to the receiver
D	None of these
Answer	C

<b>Id</b>	<b>49</b>
Question	----- is an ANSI and ISO standard for interchange of compound office documents specifies both content and format.
A	ODA
B	CDA
C	RTF
D	SGML
Answer	A

<b>Id</b>	<b>50</b>
Question	----- inform a program when part or all of the window's client area is “invalid”and must be “updated” which means that it must be redrawn.
A	WM_PAINT
B	WM_CALL
C	WM_CREATE
D	WM_MAIN
Answer	A