QUESTION PAPER - 2011

COMPUTER SCIENCE & ENGINEERING

| Q.1 | The octal number | equivalent of decimal | 324.987 is | |
|-----|---|---|---|--|
| | (1) 504.771 | (2) 540.781 | (3) 214.234 | (4) 40.987 |
| Q.2 | What is the output for (i = 2; i < print f ("%d",i) | | Loop. | |
| | (1) 269 | (2) 2 5 8 | (3) 139 | (4) 26 |
| Q.3 | Which of the follow | wing is the correct way | of declaring a flo | at pointer variable |
| | (1) float ptr; | (2) float *ptr; | (3) *float ptr' | (4) fit ↑ ptr; |
| Q.4 | Which of the follow | ving case does not exi | st in complexity th | eory |
| | (1) Best case | (2) Worst case | (3) Average ca | se (4) Null case |
| Q.5 | (1) the name of a(2) the data type(3) the first data f(4) the index set of | rray of array rom the set to be store of the array | ACA D Gaddis Musiki OAO-66 000-333 | the information about DEMY ECET /POLYCET IPLOMA TUTTIONS amagar. By the formula to the formula t |
| | (1) LOC (Array[5(2) LOC (Array[5(3) LOC (Array[5 | nber of words per men) = Base(Array[5]) +) = Base(Array[5]) +) = Base(Array[4]) +) = Base(Array[4]) + | w(5-lower bound) (5-lower bound) 5 (5-Upper bound |) |
| Q.7 | | ked of integers how long we have a pointer t | | f particular node take in t |
| | (1) 0 (n) | (2) 0 (n ²) | (3) 0(1) | (4) 0(logn) |
| Q.8 | When inorder tran return | versing a tree resulted | EACKFHDBG; t | he preorder traversal wou |
| | (1) FAEKCDBHG | (2) FAEKCDHGB | (3) EAFKHDC | BG (4) FEAKDCHBG |
| Q.9 | Which of the follow | ving sorting algorithm | is of divide-and-co | onquer type? |
| | (1) Bubble sort | (2) Insertion sort | (3) Quick sort | (4) Heap sort |
| Q.1 | O If a every node u i | n G is adjacent to eve | | G, A graph is said to be |
| | (1) isolated | (2) complete | (3) finite | (4) strongly connected |

| | | | 2 2 | | | | | |
|------|--|--------------------|---|----------|-----------------|--------------------------|----------|--|
| Ques | tion | Paper - 201 | | | 200 Ede | | 89 | |
| Q.11 | | OSI network a | architecture, the dia | logue | control an | d token manageme | nt are | |
| | (1) | session layer | (2) network layer | (3) | transport la | yer (4) data link layer | i i | |
| Q.12 | Но | w many OSI lay | ers are covered in the | X.25 | standard? . | | | |
| | (1) | Two | (2) Three | (3) | Seven · | (4) Six | | |
| Q.13 | WH | nich of the follow | ving statement is inco | rrect? | | | | |
| | (1) | | between synchronous he data in synchronou | | • | s transmission is the cl | ocking | |
| | (2) | Half duplex lin | e is a communication same time | line ir | n which data | can move in two dire | ctions | |
| | (3) | Teleprocessing | combines telecommu | nicatio | ons and DP te | chniques in online ac | tivities | |
| | (4) | Batch processi | ng is the preferred pro | cessin | g mode for te | lecommunication ope | ration | |
| Q.14 | W | nich of the follow | ving statement is inco | rrect ? | | | | |
| | (1) | | designed to accepts do | | | devices and transmit | unified | |
| 0 | (2) | HDLC is a star | ndard synchronous co | mmur | ication prote | ocol | | |
| | (3) | | way the DTE indicat ates that it is ready to | | | transmit data and th | ie way | |
| | (4) | RTS/CTS is the | e way the terminal ind | licates | ringing | | | |
| Q.15 | Th | e transmission s | ignal coding method | of TI c | arrier is calle | d | 37 | |
| | (1) | Bipolar | (2) NRZ | (3) | Manchester | (4) Binary | | |
| Q.16 | | | n that has been modifi e and record locking | | | | rrency | |
| | (1) | LAN intrinsic s | oftware | (2) | LAN aware | software | | |
| 60 | (3) | Groupware | 18 | (4) | LAN ignora | nt software | | |
| Q.17 | W | at is the central | device in star topolo | gy? | | | | |
| | (1) | STP server | (2) HUB/switch | (3) | PDC | (4) Router | | |
| Q.18 | W | nich of the follow | ving signal is not stand | dard F | RS-232-c sign | al? | | |
| | (1) | VDR | (2) RTS | (3) | CTS | (4) DSR | 000 | |
| Q.19 | To | which class the | computer belongs if i | t's IP a | ddress is 19 | 2.5.5.0. | | |
| | 20.00 | A | (2) B | | С | (4) D | 53 | |
| Q.20 | W | at is the main d | ifference between DD | CMP | and SDLC? | | | |
| | (1) DDCMP does not need special hardware to final the beginning of a message | | | | | | | |

(2) DDCMP has a message header (3) SDLC has a IP address (4) SDLC does not use CRC

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|------|--|---------|--|--|--|--|
| Q.21 | Q.21 Which command is used to copy a file wb with the same name from the directory to the misc. directory? | | | | | |
| | (1) copy programs/wb misc/wb | (2) | cp programs/wb misc | | | |
| | (3) copy a:programs/wb b:misc/wb | (4) | tar programs/wb misc/wb | | | |
| Q.22 | The commonly used UNIX command | | | | | |
| | (1) /dev directory | | /bin and /usr/bin directories | | | |
| | (3) /unix directory | (4) | /tmp directory | | | |
| 0.23 | In OSI network, the reouting of pack | ets is | a function of | | | |
| 200 | (1) application layer | | physical layer | | | |
| | (3) network layer | | section layer | | | |
| 0.24 | Which type of switching uses the ent | 252 722 | | | | |
| | (1) circuit switching | | datagram packet switching | | | |
| | The state of the s | | message switching | | | |
| 0.25 | | | n a parent process and a child process? | | | |
| | (1) External variables | | Local variables | | | |
| | (3) Pointer variables | 3135 | Pipes | | | |
| Q.26 | removes a deadlock by abortir in the deadlock can resume their ope | | ne processes so that other processes involved n | | | |
| | (1) Deadlock resolution | | Deadlock detection | | | |
| | (3) Deadlock occurence | (4) | Deadlock avoidance | | | |
| Q.27 | The sleeping barber problem is an ex | ampl | e of | | | |
| | (1) deadlock | (2) | starvation | | | |
| | (3) semaphore | (4) | live lock | | | |
| Q.28 | Interrupt disabling is not possible in | a | | | | |
| | (1) uniprocessor architecture | (2) | multiprocessor architecture | | | |
| | (3) multiprogramming architecture | (4) | uniprogramming architecture | | | |
| Q.29 | A user process enters kernel mode b | y issu | ing a when an exception is generated | | | |
| | (1) program | | routine | | | |
| | (3) handler | (4) | system call | | | |
| Q.30 | Round Robin is the preemptive versi | on of | | | | |
| 5 | (1) FIFO | | LCFS | | | |
| | (3) SJF | (4) | FCLS / | | | |
| Q.31 | | mai | n and secondary memory. | | | |
| 278 | (1) Process tables | | File tables | | | |
| | (3) Memory tables | (4) | I/O tables | | | |
| Q:32 | When large volumes of data are to | | | | | |
| 15 | (1) interrupt driven I/O | | programmed I/O | | | |
| | - | | I/O mapping | | | |

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| | | 331 | | | |
|---|---|--|-------|-----------------|---|
| Q.33 | Anis use | d for the exchange of da | ta b | etween an I/O | module and the processor |
| | (1) I/O address reg | gisters | (2) | I/O buffer reg | gisters , |
| | (3) I/O data regist | ers | (4) | I/O index reg | isters |
| Q.34 | Which process no | longer exists, but it leav | es re | cord for its pa | arent process to collect |
| | (1) created | (2) zombie | (3) | preemptied | (4) user running |
| Q.35 | Which of the follow | ving is not an advantag | e of | the database | approach |
| | (1) reduction of de | ata redumdancy | (2) | ability of ass | ociate deleted data |
| | (3) increased secu | rity | (4) | program/data | a independence |
| Q.36 | | the division operator div e n and produces a resu | | | of degree m+n by a divisor |
| | (1) m-1 | (2) m+1 | (3) | m*n | (4) m |
| Q.37 | operator is specified | used to compare a val | ue to | a list of lite | ral values that have been |
| | (1) LIKE | (2) COMPARE | (3) | BETWEEN | (4) IN |
| Q.38 | In a relational mod | del, degree is termed as | | | , to 10 |
| 8 (6) | (1) no. of tables | (2) no. of attributes | (3) | no. of rows | (4) no. of candidate keys |
| Q.39 | The metadata is cr | eated by | | | 100 No. |
| | (1) DML compiler | (2) DML preporecessor | (3) | DDL interpre | tor(4) Query interpretor |
| Q.40 Which of the following constitutes a basic set of operations for data? | | | | | or manipulating relational |
| | (1) Relational alge | ebra | (2) | TRC | |
| | (3) DRC | | (4) | SQL | |
| Q.41 | The operation whi | ch is not basic in relatio | nal a | algebra is | |
| | (1) JOIN | (2) select | (3) | union | (4) cartesian product |
| Q.42 | | ub query for emptiness | is do | one by | |
| X | (1) DISTINCT | (2) UNIQUE | | NULL | (4) EXISTS |
| Q.43 | | | and | X is the subc | ordinate entity, then which |
| | of the following is | | | | 2 0 |
| | | , if Y is deleted so is X | | | |
| | (2) X's existance i | the Management of the Control of the | | | e. |
| | (3) If X is deleted | | | | 4 |
| 0.44 | CONTRACT CONTRACTOR CONTRACTOR CONTRACTOR | , Y remains the same | | af a valation a | l databasa madal |
| Ų.44 | (7) (2) | wing is not a characteris | | TREE structi | |
| | (1) TABLE | | | | |
| 0.45 | (3) records | t is avacuted automati | | | cal relationship om as _f a side effect of the |
| Q.43 | modification of the | | cany | by the syste | an asya side effect of the |
| | (1) backup | (2) recovery | (3) | assertion | (4) trigger |

Question Paper - 2011

| | The No. of the case of the case of | |
|------|--|--|
| Q.46 | Generally speaking, for a weak entity s | |
| | (1) one-to-one relationship | (2) one-to-many relationship |
| | (3) many-to-many relationship | (4) many-to-one relationship |
| Q.47 | Assume transaction A holds a shared lo lock on R, it will | ck R, if transaction B also requests for a share |
| | (1) Result in a deadlock situation | 35 250 |
| | (2) immediately be granted | |
| | (3) immediately be rejected | |
| | (4) be granted as soon as it is released | I by A |
| 0.48 | Which operator is used to create and co | |
| Q.40 | (1) ++ (2) && | (3) & (4) + |
| Q.49 | | members can be part of the internal part of |
| 60 | (1) Private methods | (2) Public instance variables |
| | (3) private constructors | (4) Public methods |
| 0.50 | What is an example of polymorphism? | |
| Q.50 | (1) Method overloading | (2) Anonymous classes |
| | (3) Inner class | (4) Method over riding |
| 0.51 | What is the result of executing the follo | 10 전 10 전 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| Q.51 | boolean | , will magnitude of court |
| | | |
| | fl ag = false; | X 8 |
| | if (fl ag = true) | |
| | <pre>{system.out.printin("false");}</pre> | |
| 20 | else | |
| • • | {system.out.printin("false");} | (2) an exception is raised |
| ±00 | (1) nothing happens | (4) false is printed to standard out |
| | (3) true is printed to standard out | (4) Taise is printed to standard out |
| Q.52 | Which of the following is illegal; | (0) flood (= 45.0 |
| | (1) float $f = 45.0$; | (2) float $f = 45.0$ |
| ¥ | (3) doubled = 45.0; | (4) int $i = 32$; |
| Q.53 | | |
| | (1) initialized when destroyed | (2) initialized |
| | (3) initialized when created | (4) initialized when called |
| Q.54 | Which of the following wrapper classe | |
| | (1) Long (2) Boolean | (3) Character (4) Integer |
| Q.55 | Final variables should be declared in t | |
| | (1) inside constructors | (2) outside the methods |
| | (3) inside methods | (4) inside classes |
| | | |

ECET (Computer Science and Engineering)

| Juest | ion Paper - 201 | | | | | | |
|--|--|--|-----------------------|-------------------------|--|--|--|
| 2.56 | The java interpret | er is used for the | of the source co | de. | | | |
| - Cardinas at | | | | (4) creation | | | |
| 0.57 | 56 The java interpreter is used for the of the source code. (1) debugging (2) execution (3) compiling (4) creation 57 Which one does not extend java. 1 ang number (1) Integer (2) Boolean (3) Short (4) Long 58 What will happen if you try to compile and run the following code? public class Q {public static void main (string arg v[]) {int anar [] = new int [5]; (System.out.print in (anar[0];}) (1) Error (2) null (3) 5 (4) 0 59 How can class be imported to a program? (1) import "class name"; (2) import "class name + +; (2) import "class name"; (4) import "class name".*; 60 Which statement is true about a non-static inner class? (1) It can access private instance variables in the enclosing object (2) It is accessible from any other class (3) It can only be instantiated in the enclosing class (4) It must implement an interface 61 Applets are executed generally in a (1) console (2) browser (3) server (4) network Which one is a key word in Java? (1) friend (2) size of (3) extends (4) NULL 63 What will be printed out if this code is run with the following command line? java my_profr good morning public class my_prog {public static void main(string argv[]) | | | | | | |
| 13 48 | | Company Spirit Comment | | (4) Long | | | |
| 0.58 | | if you try to compile | and run the following | ng code? public class (| | | |
| | | | | | | | |
| | \$25 sec 10 sec | | 9 | | | | |
| | | V. V | | | | | |
| | and a second | | (3) 5 | (4) 0 | | | |
| 2.59 | How can class be | imported to a progra | im? | | | | |
| Q.57 Which one does not extend java. 1 ang.number (1) Integer (2) Boolean (3) Short (4) Long Q.58 What will happen if you try to compile and run the following code? public class {public static void main (string arg v[)} {int anar [] = new int [5]; {System.out.print in (anar[0];}} (1) Error (2) null (3) 5 (4) 0 Q.59 How can class be imported to a program? (1) import "class name"; (2) import "class name + +; (2) import "class name"; (4) import "class name + +; (2) import "class name"; (4) import "class name".*; Q.60 Which statement is true about a non-static inner class? (1) It can access private instance variables in the enclosing object (2) It is accessible from any other class (3) It can only be instantiated in the enclosing class (4) It must implement an interface Q.61 Applets are executed generally in a (1) console (2) browser (3) server (4) network Q.62 Which one is a key word in Java? (1) friend (2) size of (3) extends (4) NULL Q.63 What will be printed out if this code is run with the following command line? java my_profr good morning public class my_prog {public static void main(string argv[])} {system.out.print in (argv [2]} (1) my_prog (2) exception raised: "java.lang.Array Index out of Bounds Exception:2" (3) moming (4) good Q.64 percent (A, "70, 8180) => placement (A, "Infosys") percent (A, "70, 7180) => placement (A, "Microsoft") percent (A, "70, 7180) => placement (A, "IBM") These sets of rules clearly refer torule (1) Boolean association (2) Quantitative association | | | | | | | |
| | The state of the s | | (4) import "clas | ss name".*; | | | |
| 2.60 | Which statement | is true about a non-si | tatic inner class? | | | | |
| T0 | | | | g object | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | (3) server | (4) network | | | |
| Q.62 | Which one is a ke | y word in Java? | | | | | |
| 17 | | | (3) extends | (4) NULL | | | |
| Q.63 | | | | | | | |
| | | | | | | | |
| | public class my_p | orog | 80 Tel | | | | |
| | {public static void | d main(string argv[]) | | | | | |
| | {system.out.prin | In (argv [2]}} | | | | | |
| | (1) my_prog | | | | | | |
| | (2) exception ra | sed: "java.lang.Array | Index out of Bounds | s Exception:2" | | | |
| | | | | | | | |
| 20 | (4) good | 2 | | | | | |
| Q.64 | percent (A, "70, | 81 80})=> plac | cement (A, "Infosys") |) | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | (1) Boolean ass | ociation | | | | | |
| | | sional association | (4) Multi dime | nsional association | | | |

| 94 | | The state of the s | ECET (Computer | Science and E | ngineering |
|------|---------------------|--|----------------------|------------------|---------------|
| Q.65 | A priori algorithi | n employs level-wise s | earch, where k-iten | nsets uses | itemsets. |
| | (1) k | | (3) (k+1) | (4) K(k+1) | 121 |
| Q.66 | Anti-monotone: | | | | |
| | (1) if a set cann | ot pass a test, all its su | bersets also canno | t pass the same | test |
| | (2) if a set cann | ot pass a test, all its su | uper sets pass the t | est | Selection . |
| | | a test, all its super set | | | |
| | | the test, all its subsets | | | |
| Q.67 | | | | | |
| | | number of transaction | s scanned till previ | ous iteration | 0.00 |
| | | number of transaction | | | |
| | | number of transaction | | | |
| | | number of iterations i | | | |
| Q.68 | | improve the efficiency | | rithm | |
| | (1) Berg queries | | (2) iceberg que | | |
| | (3) ice burg que | ries - | (4) ice cube qu | | |
| Q.69 | Which threshold | can be set up for passin | | | lower levels? |
| | (1) Level-class tl | | (2) Level-shift | | |
| | (3) Level-passag | e threshold | (4) Level-jump | | |
| Q.70 | Bayes threorem 1 | provides a way of calcu | lating which proba | bility? | |
| | (1) posterior | (2) prior | | (4) ideal | 28 |
| Q.71 | A neural network | containing N hidden la | yers is called as | layered neu | ıral network. |
| | (1) (N-1) | (2) N | (3) (N+1) | (4) 2N | |
| Q.72 | Software enginee | ring primarily aims on | developing | | |
| | (1) *reliable softw | | | | |
| | (2) cost effective | software | 9: | | |
| | (3) reliable and o | cost effective software | | | 89 |
| | (4) only effective | software | | | |
| Q.73 | Which of the follo | wing comments about | object oriented des | sign of software | is not true? |
| | (1) Objects inher | rit the properties of the | class | | 89 |
| | (2) Classes are d | efined based on the at | tributes of objects | | |
| | (3) An object car | n belong to two classes | | | |
| | (4) Classes are a | | | | |
| Q.74 | Design phase will | usually be | | 2 | |
| | (1) top-down | (2) bottom-up | (3) random | (4) centre fri | nging |
| Q.75 | Which of the foll | owing types of mainte | nance takes the m | aximum chunk | of the total |
| | maintenance effo | ort in a typical life cycle | of a software proc | luct? | |
| | (1) Adaptive mai | | (2) Corrective r | | |
| | (3) Preventive ma | aintenance | (4) Perfective n | naintenance | |
| | | | | | |

| Ques | tion Paper - 2011 | |
|----------------------------|--|--|
| Q.76 | The data flow model of an application r | nainly shows |
| | (1) The underlying data and the relation | nship among them |
| | (2) Processing requirements and the flo | ow of data |
| | (3) Decision and control information | San Control of the Co |
| | (4) Communication and network structu | ure |
| Q.77 | Which of the following graph theoretic of | concept will be useful in software testing? |
| 0 2 .000.000 | (1) Cyclomatic number | (2) Hamiltonian circuit |
| | (3) Eularian cycle | (4) Reliability cycle |
| Q.78 | Which of the following testing methods | s is normally used as the acceptance test for a |
| | software system? | |
| | (1) Regression testing | (2) integration testing |
| | (3) Unit testing | (4) Functional testing |
| Q.79 | Software testing techniques are most eff | fective if applied immediately after |
| | (1) requirement specification | (2) design |
| | (3) coding | (4) integration |
| Q.80 | In object - oriented design of software, o | objects have |
| in and the second | (1) attributes and name only | |
| | (2) operations and name only | * _ 102 |
| | (3) attributes, name and operations | - 19 12 12 12 12 12 12 12 12 12 12 12 12 12 |
| | (4) name only | gr 🕅 1 |
| Q.81 | 3 G G G G | K memory is |
| The Mark State of the Land | (1) 6 (2) 8 | (3) 12 (4) 16 |
| Q.82 | A NAND gate is equivalent to an AND | gate plus a gate put together |
| City. | (1) NOR (2) NOT . | (3) XOR (4) OR |
| Q.83 | SANTA NAME AND ASSOCIATE OF THE SANTA OF THE | |
| | (1) Used to indicate uppercase letters | (2) Used to detect errors |
| | (3) is the first bit in byte | (4) is the last bit in byte |
| 0.84 | Which of the following should get higher | r priority is assigning interrupt |
| | (1) Hard disk (2) Key board | (3) Floppy disk (4) Printer |
| 0.85 | Which of the following sets represents a | and the control of th |
| | (1) NAND (2) XOR | (3) AND (4) NOT . |
| 0.86 | | Idress to each I/O device in the computer system |
| | is called; | 25 (2) |
| | (1) memory - mapped I/O | (2) ported I/O |
| | (3) dedicated I/O | (4) wired I/O |
| Q.87 | | ps track of the answer or results of any arithmetic |
| C3 | or logic operation is the : | |
| 24 | (1) stack pointer | (2) program counter |
| | (3) intruction pointer | (4) accumulator |

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|----------|--|-------------------------|-------------------------------|--|--|--|--|--|
| Q.88 | The memory address of the last location of a 1K byte memory chip is given as OFBFFH what will be address of the first location? | | | | | | | |
| | (1) OF817H (2) OF818H | (3) OF800H | (4) OF801H | | | | | |
| Q.89 | Because microprocessor do not understa | and mnemonics a | as they are, they have to be | | | | | |
| ** | (1) hexadecimal machine code | (2) binary mad | chine code | | | | | |
| | (3) assembly language | (4) OCTAL co | de | | | | | |
| Q.90 | The logical family used in systems requiri | ng low power cor | sumption | | | | | |
| | (1) ECL (2) MOS | (3) TTL | (4) CMOS | | | | | |
| Q.91 | Which of the following combinations of g | gates does not allo | ow the implementation of an | | | | | |
| 5.0 0 | arbitrary Boolean function? | | | | | | | |
| 15 | (1) OR gates and inverters only | | | | | | | |
| | (2) NAND gates only | | | | | | | |
| | (3) OR gates and exclusive - OR gates or | nly · | ii ii | | | | | |
| | (4) OR gates and NAND gates | . 10 | | | | | | |
| Q.92 | The TRAP is one of the interrupts availab statements is true to TRAP? | le its INTEL 8085 | 6. Which one of the following | | | | | |
| | (1) it is level triggered | | | | | | | |
| | (2) it is negative edge triggered | | 41 | | | | | |
| | (3) it is positive edge triggered | | 9 S | | | | | |
| | (4) it is both positive edge triggered and | level triggered | 860 E | | | | | |
| Q.93 | The output Qn of a J-K flip-flop is zero, in The inputs Jn and Kn are respectively | it changes to 1 w | hen a clock pulse is applied. | | | | | |
| | (1) 1 and X (2) 0 and X | (3) X and 0 | (4) X and 1 | | | | | |
| Q.94 | In 8086/8088 microprocessor, the unit resp | onsible for getting | the instructions from memory | | | | | |
| | and loading in the queue is | | | | | | | |
| , | (1) Execution unit (2) Registers | (3) Stack | (4) Bus interface unit | | | | | |
| Q.95 | The instruction MOV CL, [BX] {Di}+8 | 10 es | 15 | | | | | |
| | (1) Based relative | (2) Base index | ed | | | | | |
| | (3) Indexed relative | (4) Register in | direct | | | | | |
| Q.96 | Rotational latency refers to the time take | en by the platter t | 0 | | | | | |
| N 100 | (1) make full rotation | | x 25 | | | | | |
| | (2) move into position over appropriate | track | | | | | | |
| | (3) rotate the correct sector under the he | zad | | | | | | |
| | (4) write the data into memory | | | | | | | |
| Q.97 | A computer memory is composed of 8k fhis memory contain? | words of 32 bits | each. How many bytes does | | | | | |
| | (1) 8k (2) 32k | (3) 16k | (4) 4k | | | | | |
| | market to a section of the section o | AND THE PERSON NAMED IN | | | | | | |

- Q.98 A memory management technique used to improve computer performance is
 - (1) selecting memory chips based on their cost
 - (2) storing maximum data on the disk
 - (3) using the cache to store data that may be needed soon
 - (4) preventing data movement from cache to primary memory
- Q.99 A high level view of Neumann architecture has the following three components
 - (1) Buses, memory, I/O controllers
 - (2) CPU, Hard disk, Floppy drive
 - (3) Memory, CPU, Printers
 - (4) Memory, I/O modules, CPU
- Q.100 RAM is called DRAM when
 - (1) it is always loaded with data
 - (3) can write several things

- (2) requires periodic refreshing
- (4) distributes the data fast

PACADEMY ECET /POLYCET
DIPLOMA TURNONS
Gaddionmaram X Road.
Dissakhangar.Hyderabad.
640-66632352/65352352
8685352352/8143352352

[Key]

| (1) | 1 | (2) | 4 | (3) | 2 | (4) | 4 |
|------|----|------|-----|--------|-----|--------|---|
| (5) | 4 | (6) | 1 | .(7) | 3 | (8) | 2 |
| (9) | 3 | (10) | 2 | (11) | 1 | (12) | 4 |
| (13) | 4 | (14) | 4 | (15) | 1 | (16) | 2 |
| (17) | 2 | (18) | 1 | (19) | 3 | (20) | 1 |
| (21) | 1 | (22) | 2 . | (23) | 3 | (24) | 1 |
| (25) | 1 | (26) | 2 | (27) | 3 | (28) | 1 |
| (29) | 4 | (30) | 3 | (31) | 3 | (32) | 2 |
| (33) | 2 | (34) | 2 | (35) | 2 | (36) | 4 |
| (37) | 4 | (38) | 1 | (39) | 3 | (40) | 4 |
| (41) | 4 | (42) | 4 | (43) | 3 | (44) | 2 |
| (45) | 4 | (46) | 2 | (47) | 2 | (48) | 4 |
| (49) | 1 | (50) | 1 . | (51) | 4 | (52) | 1 |
| (53) | 3 | (54) | 2 | (55) | 4 | (56) | 2 |
| (57) | 2 | (58) | 4 | (59) | 1 | (60) | 4 |
| (61) | 2 | (62) | 3 | (63) | 2 | (64) | 4 |
| (65) | 2. | (66) | 1 | (67) | 4 | (68) | 2 |
| (69) | 3 | (70) | 3 | (71) | 2 . | (72) | 3 |
| (73) | 3 | (74) | 1 | (75) | 2 | (76) | 2 |
| (77) | 1 | (78) | 2 | . (79) | 3 | (80) | 3 |
| (81) | 3 | (82) | 4 | (83) | 2 | · (84) | 2 |
| (85) | 1 | (86) | 1 | (87) | 4 | (88) | 1 |
| (89) | 1 | (90) | 4 | (91) | 3 | (92) | 4 |
| (93) | 4 | (94) | 1 | (95) | 1 | (96) | 4 |
| (97) | 4 | (98) | 3 | (99) | 1 | (100) | 2 |