

**Subject : Comprehensive Examination-I (Objective Type)**

Day : Wednesday

Date : 08/06/2016

**S.D.E.**



Time : 02.00 P.M. TO 05.00 P.M.

Max Marks : 100 Total Pages : 4

**N.B.**

- 1) All the questions are **COMPULSORY**
- 2) Each questions carries **TWO** marks.
- 3) Write the appropriate choice in the answer book.

- Q.1** A function that transforms a key in to a table index is called \_\_\_\_\_  
a) Control                      b) Hash                      c) Map                      d) None of these
- Q.2** A decision table facilities conditions to be related to \_\_\_\_\_  
a) Actions                      b) Programs                      c) Tables                      d) Operations
- Q.3** \_\_\_\_\_ algorithm is used to allocate inode.  
a) ialloc                      b) nalloc                      c) Mallac                      d) None of these
- Q.4** The traversal methods for \_\_\_\_\_ trees induce traversal methods for forest  
a) Search                      b) Binary                      c) Single                      d) None of these
- Q.5** An extra node at the front of a list, which does not represent an item is a \_\_\_\_\_ node.  
a) Begin                      b) Start                      c) Header                      d) None of these
- Q.6** The mean of binomial distribution is 10 and its standard deviation is 2, what is the value of q?  
a) 1                      b) 0.8                      c) 0.6                      d) None of these
- Q.7** Inverse of the proposition  $p \rightarrow q$  is  
a)  $q \rightarrow p$                       b)  $\sim p \rightarrow \sim q$                       c)  $\sim q \rightarrow \sim p$                       d) None of these
- Q.8**  ${}^nC_0 =$  \_\_\_\_\_ ?  
a) n !                      b) 1                      c) o                      d) None of these
- Q.9** If  $A = \{ 0, 1, 3, 4 \}$ ,  $B = \{ 5, 6, 1, 3, 9 \}$  and  $C = \{ 0, 1, 2, 3, 9, 13 \}$  then Which of the following is  $(A \cap B) \cap C$   
a)  $\{ 0, 1, 2, 3, 9, 13 \}$                       b)  $\{ 0, 1, 2, 3, 4, 9, 13 \}$   
c)  $\{ 0, 1, 2, 3, \}$                       d) None of these
- Q.10** Which of the following cannot be checked in a switch – case statement?  
a) Character                      b) Integer                      c) Float                      d) None of these
- Q.11** Two main measures for the efficiency of an algorithm are \_\_\_\_\_  
a) Processor and memory                      b) Complexity and capacity  
c) Time and space                      d) None of these

**P.T.O.**

- Q.12** The time factor when determining the efficiency of algorithm is measured by  
 a) Counting microseconds  
 b) Counting the number of key operations  
 c) Counting the number of statement  
 d) None of these
- Q.13** The space factor when determining the efficiency of algorithm is measured by \_\_\_\_\_  
 a) Counting the maximum memory needed by the algorithm  
 b) Counting the minimum memory needed by the algorithm  
 c) Counting the average memory needed by the algorithm  
 d) None of these
- Q.14** Which of the following case does not exist in complexity theory?  
 a) Best case                      b) Worst case                      c) Null case                      d) None of these
- Q.15** The Worst case occur in linear search algorithm when \_\_\_\_\_  
 a) Item is somewhere in the middle of the array  
 b) Item is not in the array at all  
 c) Item is the last element in the array or is not there at all  
 d) None of these
- Q.16** Which allows you to create a derived class that inherits properties more than one base class?  
 a) Multilevel inheritance                      b) Multiple inheritance  
 c) Hybrid inheritance                      d) None of these
- Q.17** Which feature in OOP allows reusing code?  
 a) Polymorphism                      b) Inheritance                      c) Encapsulation                      d) Data hiding
- Q.18** A function that changes the state of the cout object is called a(n) \_\_\_\_\_  
 a) Member                      b) Adjuster                      c) Manipulator                      d) None of these
- Q.19** What does C++ append to the end of a string literal constant?  
 a) A Null Character                      b) A number sign (#)                      c) An asterisk (\*)                      d) None of these
- Q.20** An array element is accessed using \_\_\_\_\_  
 a) A first – in first – out approach                      b) An index number  
 c) A member name                      d) None of these
- Q.21** What happen if in a C program you assign a value to an array element whose subscript exceeds the size of array?  
 a) The compiler could report an error  
 b) The program may crash at some important data gets overwritten.  
 c) The array size would appropriate grow.  
 d) None of these.
- Q.22** What does the following declaration mean?  
 Int( \* Ptr ) [ 10 ];  
 a) Ptr is a pointer to an array of 10 integers.  
 b) Ptr is array of pointer to 10 integer  
 c) Ptr is an array of 10 integer  
 d) None of these

- Q.23** The value of automatic variable that is declared but not initialized will be?  
a) 0.      b) 1      c) Unpredictable      d) None of above
- Q.24** Break statement can be simulated by using \_\_\_\_\_  
a) Go to  
b) Return  
c) Exit  
d) None of these
- Q.25** How many files are created after compilation of c program?  
a) 2      b) 3      c) 4      d) None of these
- Q.26** Spiral Model was development by?  
a) Bev Littlewood      b) Berry Bohem      c) Roger Pressman  
d) Victor Bisili
- Q.27** Which model is popular for student's small projects?  
a) Waterfall Model      b) Spiral Model      c) Quick and Fix Model  
d) Prototyping Model
- Q.28** Which is not a software life cycle model ?  
a) Spiral Model      b) Waterfall Model      c) Prototyping Model  
d) Capability maturity Model
- Q.29** Project risk factor is considered in \_\_\_\_\_  
a) Spiral Model      b) Waterfall Model      c) Prototyping Model  
d) Iterative enhancement model
- Q.30** Build and Fix model has \_\_\_\_\_  
a) 3 Phases      b) 1 Phase      c) 2 Phases      d) 4 Phases
- Q.31** The inverter circuit inverts the logic sense of a \_\_\_\_\_ signal.  
a) Binary      b) Ternary      c) Analog      d) Chemical
- Q.32** A \_\_\_\_\_ circuit is a interconnection of flip flops & gates  
a) Sequential      b) Analog      c) Logical      d) Arithmetic
- Q.33** The transfer of information from memory word to the outside environment is called \_\_\_\_\_ operation  
a) Write      b) Select      c) Delete      d) Read
- Q.34** The simplest way to organize a computer is to have one processor register and instruction code format with \_\_\_\_\_ parts  
a) One      b) Two      c) Three      d) Zero
- Q.35** \_\_\_\_\_ is a program that accepts a symbolic language program and produces its binary machine language equivalent  
a) Assembler      b) Interpreter      c) Compiler      d) Converter
- Q.36** A table may have only one \_\_\_\_\_  
a) Candidate key      b) Primary key      c) Alternate key  
d) None of these

P.T.O.

- Q.37** DML stands for \_\_\_\_\_  
 a) Data mining language                      b) Dependency maintains link  
 c) Data manipulation language              d) None of these
- Q.38** Which of the following is an advantage of the views?  
 a) Data security              b) Derived columns              c) Hiding of complex queries  
 d) None of these
- Q.39** Which of the following is a valid comparison operator?  
 a) NOT IN              b) NOT BETWEEN              c) LIKE  
 d) None of these
- Q.40** A \_\_\_\_\_ is evaluated in a bottom to top manner  
 a) Nested sub query              b) Non co related sub query  
 c) Normal sub query              d) None of these
- Q.41** Third generation operating systems were well suited for \_\_\_\_\_ scientific calculations.  
 a) Big              b) Average              c) Small              d) None of these
- Q.42** Operating systems that support the process concepts must provide some way to \_\_\_\_\_ all the process needed.  
 a) Create              b) Delete              c) Block              d) None of these
- Q.43** Potential advantage of a distributed system over a centralized one is higher \_\_\_\_\_  
 a) Reliability              b) Availability              c) Usability  
 d) None of these
- Q.44** Distributed system usually has \_\_\_\_\_ independent users.  
 a) Single              b) Central              c) Multiple              d) None of these
- Q.45** In operating system, the physical layer sends just \_\_\_\_\_  
 a) Bits              b) Data              c) Signals              d) None of these
- Q.46** UNIX operating system was first developed by \_\_\_\_\_  
 a) Dennis Ritchie              b) Ken Thompson              c) Brian Kernighan  
 d) None of these
- Q.47** UNIX is a \_\_\_\_\_ operating system  
 a) Single user , Single tasking              b) Single user, Multitasking  
 c) Multi user, Multi tasking              d) None of these
- Q.48** Shell program is stored in a file called \_\_\_\_\_  
 a) UNIX              b) Sh              c) Dd              d) None of these
- Q.49** Which shell offers a command history features?  
 a) C shell              b) Visual shell              c) Bourne shell              d) None of these
- Q.50** The minimum number of links for any directory file are \_\_\_\_\_  
 a) 3              b) 4              c) 1              d) None of these

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