

For release

23/8/13

23/9/13

(Total No. of Printed Pages :16)

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PHD-EE-2013

Sr. No.10003....

(Subject : Computer Sc. Engineering)

Time : 1 1/4 Hours

Max. Marks : 100

Total Questions : 100

Candidate's Name Date of Birth

Father's Name Mother's Name

Roll No.(In Figure) in words)

Date of Examination :

SE

(Signature of the Candidate)

(Signature of the Invigilator)

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1. All questions are compulsory and carry equal marks.
2. All the candidates MUST return the Question book-let as well as OMR answer-sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / misbehaviour will be registered against him/her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
3. In case there is any discrepancy in any question(s) in the Question Booklet, the same may be brought to the notice of the Controller of Examinations in writing within two hours after the test is over. No such complaint(s) will be entertained thereafter.
4. The candidate MUST NOT do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question book-let itself. Answers SHOULD NOT be ticked in the Question book-let.
5. Use Black or Blue BALL POINT PEN only in the OMR Answer-Sheet.
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7. BEFORE ANSWERING THE QUESTIONS, THE CANDIDATES SHOULD ENSURE THAT THEY HAVE BEEN SUPPLIED CORRECT AND COMPLETE BOOKLET. COMPLAINTS, IF ANY, REGARDING MISPRINTING ETC. WILL NOT BE ENTERTAINED 30 MINUTES AFTER STARTING OF THE EXAMINATION.

1. Which of the following is a focus of today's evolving network ?
 - (1) Geography
 - (2) Route miles
 - (3) Transmission technology
 - (4) Flexible bandwidth
2. What is the real intelligence of the network ?
 - (1) ATM
 - (2) Protocols
 - (3) Software
 - (4) None of the above
3. Program sends a message to a remote computer and reports whether the computer responds.
 - (1) Ping
 - (2) Traceroute
 - (3) ICMP
 - (4) None of the given
4. A CDMA call starts with a standard rate of bits per second.
 - (1) 9500
 - (2) 9200
 - (3) 9300
 - (4) 9600
5. The bandwidth is typically over a length of one kilometer of fibre expressed as 'MHz-Km'.
 - (1) 10 to 20
 - (2) 20 to 30
 - (3) 30 to 40
 - (4) 40 to 50
6. In the 1970s, Xerox developed, which continues to be a popular networking architecture.
 - (1) Wi-Fi
 - (2) Instant messaging
 - (3) Extranet
 - (4) Ethernet
7. A port is a
 - (1) Socket that enables information to move in and out
 - (2) hardware device that allows connection to the Internet
 - (3) Peripheral device attached to a computer
 - (4) Virtual memory location
8. Hardware that calculates a CRC uses two simple components
 - (1) AND unit and XOR unit
 - (2) Shift register and XOR unit
 - (3) Shift register and AND unit
 - (4) None of the given
9. The encryption scheme improves the security of wireless networks.
 - (1) Ethernet
 - (2) Phishing
 - (3) VPN
 - (4) WEP
10. uses distance vector approach to define routing.
 - (1) BGP
 - (2) OSPF
 - (3) RIP
 - (4) None of the given

11. If the expression $((2 + 3) * 4 + 5 * (6 + 7) * 8) + 9$ is evaluated with $*$ having precedence over $+$, then the value obtained is the same as the value of which of the following prefix expressions ?

- (1) $++ 2 3 4 ** 5 + 6 7 8 9$
- (2) $* ++ 2 3 4 ** 5 ++ 6 7 8 9$
- (3) $* + + + 2 3 4 ** 5 + 6 7 8 9$
- (4) $+ + * + 2 3 4 ** 5 + 6 7 8 9$

12. Heaps can be stored in arrays without using any pointers; this is due to the nature of the binary tree, Select correct option :

- (1) Left-complete
- (2) Right-complete
- (3) Tree nodes
- (4) Tree leave

13. What is the time complexity to extract a vertex from the priority queue in Prim's algorithm ?

- (1) $\log(v)$ (2) $v.v$
- (3) $e.e$ (4) $\log(e)$

14. The depth of a complete binary tree is given by

- (1) $D_n = n \log_2 n$
- (2) $D_n = n \log_2 n + 1$
- (3) $D_n = \log_2 n$
- (4) $D_n = \log_2 n + 1$

15. Suppose that a graph $G = (V, E)$ is implemented using adjacency lists. What is the complexity of a breadth-first traversal of G ?

- (1) $O(|V|^2)$
- (2) $O(|V| + |E|)$
- (3) $O(|V|^2 |E|)$
- (4) $O(|V| + |E|)$

16. The most appropriate matching for the following pairs

X : depth first search A: heap
Y : breadth-first search B: queue
Z : sorting C: stack
is :

- (1) X-A, Y-B, Z-C
- (2) X-C, Y-A, Z-B
- (3) X-C, Y-B, Z-A
- (4) X-B, Y-C, Z-A

17. Complexity of Kruskal's algorithm for finding the minimum spanning tree of an undirected graph containing n vertices and m edges if the edges are sorted is

- (1) $O(mn)$ (2) $O(m+n)$
- (3) $O(m)$ (4) $O(n)$

18. The operation of processing each element in the list is known as

- (1) Sorting
- (2) Merging
- (3) Inserting
- (4) Traversal

19. Which sorting algorithm is faster ?

- (1) $O(n^2)$ (2) $O(n \log n)$
- (3) $O(n+k)$ (4) $O(n^3)$

20. The running time of quick sort depends heavily on the selection of

- (1) No. of inputs
- (2) Arrangement of elements in array
- (3) Size of elements
- (4) Pivot element

21. The host repeatedly checks if the controller is busy until it is not. It is in a loop that status register's busy bit becomes clear. This is called and a mechanism for the hardware controller to notify the CPU that it is ready is called

- (1) Interrupt and Polling
- (2) Polling and Spooling
- (3) Polling and Interrupt
- (4) Deadlock and Starvation

22. The effective access time (EAT) of demand paging is given by the formula

- (1) $EAT = (1-p)*mt + p*page\text{-}fault\ type$
- (2) $EAT = (1+p)*mt - p*page\text{-}fault\ type$
- (3) $EAT = (1*p*mt)*p*page\text{-}fault\ type$
- (4) $EAT = (1*p*mt)/p*page\text{-}fault\ type$

23. Using Priority Scheduling algorithm, find the average waiting time for the following set of processes given with their priorities in the order : Process : Burst Time : Priority respectively

P1 : 10 : 3, P2 : 1 : 1, P3 : 2 : 4, P4 : 1 : 5, P5 : 5 : 2

- (1) 8 milliseconds
- (2) 8.2 milliseconds
- (3) 17.75 milliseconds
- (4) 30 milliseconds

24. Which is a unary operation

- (1) Selection operation
- (2) Primitive operation
- (3) Projection operation
- (4) Generalized selection

25. The lookup page table shown below is for a job in a page virtual storage system with a page size of 1024 locations. Each virtual address is in the form $[p; d]$ where p and d are the page number and the displacement in that page, respectively. A virtual address of $[0, 514]$ maps to an actual address of

Virtual Page	Actual Page
0	3
1	-
2	4
3	0

- (1) 514
- (2) 1024
- (3) 3586
- (4) 4514

26. Which of the following information bits used by the various page replacement policies indicates if the page has been called lately ?
- (1) Locality bit
 - (2) Status bit
 - (3) Referenced bit
 - (4) Modified bit
27. For multiprogramming systems, most UNIX operating systems use
- (1) Swapping
 - (2) Demand paging
 - (3) Either (1) or (2)
 - (4) Neither (1) nor (2)
28. On repetitive jobs, rather than coding the same Multiple Virtual Storage/Job Control Language (MVS/JCL) statements over and over, a programmer can define a
- (1) Cataloged procedure
 - (2) Batch file
 - (3) Shell script
 - (4) Job Stream
29. The simplest way to break a deadlock is to
- (1) Preempt a resource
 - (2) Rollback
 - (3) Kill one of the processes
 - (4) Lock one of the processes
30. On a disk with 8 records per track, where the records are numbered from 0 to 7, and where the file is stored starting at track 0, record 14 is found on track
- (1) 0 (2) 1
 - (3) 2 (4) 3
31. Which two files are used during operation of the DBMS ?
- (1) Query languages and utilities
 - (2) DML and query language
 - (3) Data dictionary and transaction log
 - (4) Data dictionary and query language
32. Which refers to independent events of the main program flow of the systems that lacks concurrency ?
- (1) RDBMS
 - (2) Portable
 - (3) Asynchronously
 - (4) None of these
33. Which of the following is true for the relational model ?
- (1) Degree of a relation is the number of rows in a relation
 - (2) Null value is a blank or zero value given to an attribute value when its value is inapplicable or its value is unknown
 - (3) Complex key is a key consisting of more than one attribute
 - (4) Constraint is a rule that restricts the values in a database
34. Which of the following is NOT a feature of Context DFD ?
- (1) One process (which represents the entire system)
 - (2) All sources/sinks (external entities)
 - (3) Data flows linking the process to the sources and sinks (external entities)
 - (4) Sub-processes

35. Which of the following constraints enforces entity integrity ?

- (1) Primary Key
- (2) Foreign Key
- (3) Check
- (4) Not Null

36. Which object contains the Position property of the current record in a dataset ?

- (1) Binding Context
- (2) Binding Data
- (3) Data Binding
- (4) Data Bound

37. 'AS' clause is used in SQL for

- (1) Selection operation
- (2) Rename operation
- (3) Join operation
- (4) Projection operation

38. Which of the following operation is used if we are interested in only certain columns of a table ?

- (1) Projection
- (2) Selection
- (3) Union
- (4) Join

39. Which one of the following statements is false ?

- (1) The data dictionary is normally maintained by the database administrator
- (2) Data elements in the database can be modified by changing the data dictionary
- (3) The data dictionary contains the name and description of each data element
- (4) The data dictionary is a tool used exclusively by the database administrator

40. Transaction processing is associated with everything below except

- (1) Producing detail, summary, or exception reports
- (2) Recording a business activity
- (3) Confirming an action or triggering a response
- (4) Maintaining data

41. Consider the following Algorithm;

```
Factorial (n){  
  if (n = 1)  
    return 1  
  else  
    return (n * Factorial (n-))  
}
```

Recurrence for the following algorithm is :

- (1) $T(n) = T(n-1) + 1$
- (2) $T(n) = nT(n-1) + 1$
- (3) $T(n) = T(n-1) + n$
- (4) $T(n) = T(n(n-1)) + 1$

- 42.** A dense undirected graph is :
- (1) A graph in which $E = O(V^2)$
 - (2) A graph in which $E = O(V)$
 - (3) A graph in which $E = O(\log V)$
 - (4) All items above may be used to characterize a dense undirected graph
- 43.** If B is a Boolean Algebra, then which of the following is true
- (1) B is a finite but not complemented lattice
 - (2) B is a finite, complemented and distributive lattice
 - (3) B is finite, distributive but not complemented lattice
 - (4) B is not distributive lattice
- 44.** The number of distinguishable permutations of the letters in the word BANANA are :
- (1) 60 (2) 36
 - (3) 20 (4) 10
- 45.** How many words can be formed out of the letters of the word 'PECULIAR' beginning with P and ending with R ?
- (1) 100 (2) 120
 - (3) 720 (4) 150
- 46.** If x and y are real numbers then $\max(x, y) + \min(x, y)$ is equal to
- (1) 2x (2) 2y
 - (3) $(x + y)/2$ (4) x+y
- 47.** The length of Hamiltonian Path in a connected graph of n vertices is
- (1) n-1 (2) n
 - (3) n + 1 (4) n/2
- 48.** The relation $\{(1,2), (1,3), (3,1), (1,1), (3,3), (3,2), (1,4), (4,2), (3,4)\}$ is
- (1) Reflexive (2) Transitive
 - (3) Symmetric (4) Asymmetric
- 49.** A graph with one vertex and no edges is :
- (1) multigraph
 - (2) digraph
 - (3) isolated graph
 - (4) trivial graph
- 50.** A graph in which all nodes are of equal degrees is known as
- (1) Multigraph
 - (2) Regular graph
 - (3) Complete lattice
 - (4) none regular graph
- 51.** Which is a reserved word in the Java programming language ?
- (1) Method
 - (2) Subclasses
 - (3) Native
 - (4) Reference

52. For an applications program, program documentation external to the program (as opposed to comments embedded in the code) should :

- (1) be brief, be written in telegraphic style, use ample diagrams, and be designed for use by the original programmer only
- (2) be comprehensive, including information for users as well as technical information, to facilitate future revisions
- (3) be discarded once the program is finished, in order to protect the copyrighted, be written only if required by the job supervisor
- (4) never be written by the original programmer

53. Which is not a valid Exit statement ?

- (1) Exit Do (2) Exit For
- (3) Exit Form (4) Exit Select

54. Which language is designed specially for embedded computer system ?

- (1) FORTRAN
- (2) Ada
- (3) SNOBOL
- (4) LISP

55. Which of the following parameter passing mechanisms is being used to retrieve the value of "result" from function Calc ?

```
void Calc (int a, int b, int &c) :
int main( )
{
    int s = 9; t = 99; result;
    Calc(s, t, result);
    return 1;
}
void Calc (int a, int b, int &c)
{
    c = a + b
}
```

- (1) Call by value
- (2) Call by reference
- (3) Call by name
- (4) Call by value-result

56. The methodology where code is broken into small, logical procedures is called :

- (1) event-driven programming
- (2) functional programming
- (3) granular programming
- (4) modular programming

57. The indirect change of the values of a variable in one module by another module is called

- (1) Internal change
- (2) Inter-module change
- (3) Side effect
- (4) Side-module update

What would the output of the following program be, if it is executed using dynamic scoping ?

```
PROGRAM S;
VAR X : INTEGER;
PROCEDURE P;
BEGIN
  X := 3;
  WRITE (X)
END;
PROCEDURE q;
VAR X : INTEGER;
BEGIN
  X := 15;
  P;
  WRITE (X);
END;
BEGIN
  X := 10;
  Q;
  WRITE (X);
END;
```

- | | | | |
|-----|----|----|----|
| (1) | 10 | 15 | 3 |
| (2) | 3 | 3 | 10 |
| (3) | 3 | 15 | 10 |
| (4) | 3 | 3 | 15 |

Suppose we have

```
int s[6] [6];
int j, k;
for (j = 0; j < 6; j++)
  for (k = 0; k < 6; k++)
    s[j] [k] = (j + k) % 6
```

What is the value of s[s[5][3],
[1][3]] ?

- 1) 1
- 2) 2
- 3) 3
- 4) 4

```
60. int F (int a, int b)
{
  return (a + b + 1);
}
```

What is the value of f(f(10, 7),
f(5, 3)) ?

- | | |
|--------|--------|
| (1) 27 | (2) 34 |
| (3) 33 | (4) 35 |

61. A particular parallel program computation requires 100 seconds when executed on a single processor. If 40 percent of this computation is "inherently sequential" (i.e., will not benefit from addition processors), then the theoretically best possible elapsed times for this program running with 2 and 4 processors, respectively, are

- (1) 20 and 10 seconds
- (2) 30 and 15 seconds
- (3) 50 and 25 seconds
- (4) 70 and 55 seconds

62. Which language is termed as the symbolic depiction used for indicating the series :

- (1) Random transfer language
- (2) Register transfer language
- (3) Arithmetic transfer language
- (4) All of these

63. Suppose that a bus has 16 data lines and required 4 cycles of 250 nsecs each of transfer data. The bandwidth of this bus would be 2 Megabytes/sec. If the cycle time of the bus was reduced to 125 nsecs and the number of cycles required for transfer stayed the same, what would be the bandwidth of the bus ?

- (1) 1 Megabyte/sec
- (2) 4 Megabytes/sec
- (3) 8 Megabytes/sec
- (4) 2 Megabytes/sec

64. Parallel programs : Which speedup could be achieved according to Amdahl's law for infinite number of processors if 5% of a program is sequential and the remaining part is ideally parallel ?

- (1) Infinite speedup
- (2) 5
- (3) 20
- (4) 50

65. Standard CISC processor, no pipelining (around 1970): A vector operation $vc = va + vb$ with 5 elements per vector shall be performed. How many cycles are required within the loop below for the vector operation above (neglect the branch operation *br.less*) if the load instructions take two cycles and the remaining operating take 1 cycle ?

Standard Scalar CISC processor:

load r2=addr(va)

load r3=addr(vb)

load r4=addr(vc)

load r1=0

loop:

load f1=[r1+r2]

load f2=[r1+r3]

add f3=f1+f2

store [r1+r4]=f3

add r1=r1+8

cmp r1, (n*8)

br.less loop

Cycles = ?

(1) 30

(2) 35

(3) 40

(4) 45

- 66.** Standard RISC processor, with pipelining : A vector operation $vc = va + vb$ with 5 elements per vector shall be performed. How many cycles are required within the loop below for the vector operation above (neglect the branch operation *br.less*) if the load instructions take two cycles and the remaining operations take 1 cycle ?

Standard RISC processor:

load r2=addr(va)

load r3=addr(vb)

load r4=addr(vc)

load r1=0

loop:

load f1=[r1+r2]

load f2=[r1+r3]

add f3=f1+f2

store [r1+r4]=f3

add r1=r1+8

cmp r1, (n*8)

br.less loop

Cycles = ?

- (1) 20 (2) 25
(3) 30 (4) 35

- 67.** Itanium processor: Which hazard can be circumvented by register rotation ?

- (1) Control hazards
(2) Data hazards
(3) Structural hazards
(4) None

- 68.** Workload driven evaluation of parallel systems, memory constrained scaling: A matrix factorization with complexity n^3 takes 2 hours for a square matrix which requires 8×10^8 bytes on the processor (8 bytes per element). Which time would it need on 100 processors (ideal speedup) ?

- (1) 1 hour
(2) 2 hours
(3) 10 hours
(4) 20 hours

- 69.** Interconnection networks, topology: Which is the height of a binary tree with 32 nodes ?

- (1) 4 (2) 5
(3) 8 (4) 16

- 70.** Interconnection networks, topology: What is the difference between a 2-D torus and a hypercube with 16 nodes ?

- (1) None
(2) Node degree of 2-D torus is lower
(3) Bisection bandwidth of hypercube is higher
(4) Average distance of hypercube is significantly lower

71. The time factor when determining the efficiency of algorithm is measured by

- (1) Counting microseconds
- (2) Counting the number of key operations
- (3) Counting the number of statements
- (4) Counting the kilobytes of algorithm

72. The complexity of the average case of an algorithm is

- (1) Much more complicated to analyze than that of worst case
- (2) Much more simpler to analyze than that of worst case
- (3) Sometimes more complicated and some other times simpler than that of worst case
- (4) None of the above

73. Suppose we have three items as shown in the following table, and suppose the capacity of the knapsack is 50 i.e. $W = 50$.

Item	Value	Weight
1	60	10
2	100	20
3	120	30

The optimal solution is to pick

- (1) Items 1 and 2
- (2) Items 1 and 3
- (3) Items 2 and 3
- (4) None of these

74. Which of the following case does not exist in complexity theory

- (1) Best case
- (2) Worst case
- (3) Average case
- (4) Null case

75. Which statement is true ?

- (1) If a dynamic-programming problem satisfies the optimal-substructure property, then a locally optimal solution is globally optimal
- (2) If a greedy choice property satisfies the optimal-substructure property, then a locally optimal solution is globally optimal
- (3) Both of above
- (4) None of the above

76. The appropriate big theta classification of the given function. $f(n) = 4n^2 + 97n + 1000$ is

- (1) $O(n)$ (2) $O(2^n)$
- (3) $O(n^2)$ (4) $O(n^2 \log n)$

77. If algorithm A has running time $7n^2 + 2n + 3$ and algorithm B has running time $2n^2$, then

- (1) Both have same asymptotic time complexity
- (2) A is asymptotically greater
- (3) B is asymptotically greater
- (4) None of the above

- 78.** What is the solution to the recurrence $T(n) = T(n/2) + n$?
 (1) $O(\log n)$ (2) $O(n)$
 (3) $O(n \log n)$ (4) $O(n^2)$
- 79.** How many elements do we eliminate in each time for the Analysis of Selection algorithm ?
 (1) $n/2$ elements
 (2) $(n/2) + n$ elements
 (3) $n/4$ elements
 (4) n elements
- 80.** The Knapsack problem belongs to the domain of problems.
 (1) Optimization
 (2) NP Complete
 (3) Linear Solution
 (4) Sorting
- 81.** Which one of the following is not decidable ?
 (1) Given a Turing machine M , a string s , and an integer k , M accepts s with k steps
 (2) Equivalence of two given Turing machines
 (3) Language accepted by a given DFSA is nonempty
 (4) Language generated by a CFG is non empty
- 82.** A language L is defined in the alphabet $\{0, 1\}$ by $L = \{010, 0110, 01110, \dots\}$. Which regular expression generates L ?
 (1) (01^*1) (2) (011^+0)
 (3) $(0^*1^*0^*)$ (4) (011^*0)
- 83.** The following CFG is in
 $S \rightarrow AB$
 $B \rightarrow CD$
 $B \rightarrow AD$
 $B \rightarrow b$
 $D \rightarrow AD$
 $D \rightarrow d$
 $A \rightarrow a$
 $C \rightarrow a$
 (1) Chomsky normal form but not strong Chomsky normal form
 (2) Weak Chomsky normal form but not Chomsky normal form
 (3) Strong Chomsky normal form
 (4) Greibach normal form
- 84.** Consider the following language
 $L = \{a^n b^n c^n d^n \mid n \geq 1\}$ L is
 (1) CFL but not regular
 (2) CSL but not CFL
 (3) Regular
 (4) Type 0 language but not type 1
- 85.** The concept of FSA is much used in this part of the compiler
 (1) Lexical analysis
 (2) Parser
 (3) Code generation
 (4) Code optimization

86. Palindromes can't be recognized by any FSA because

- (1) FSA cannot remember arbitrarily large amount of information
- (2) FSA cannot deterministically fix the midpoint
- (3) Even if the mid-point is known an FSA cannot find whether the second half of the string matches the first half
- (4) All of the above

87. Which of the following regular expressions denotes a language comprising of all possible string over $\Sigma = \{a, b\}$ of length n where n is a multiple of 3.

- (1) $(a + b + aa + bb + aba + bba)^*$
- (2) $(aaa + bbb)^*$
- (3) $((a + b)(a + b)(a + b))^*$
- (4) $(aaa + ab + a) + (bbb + bb + a)$

88. Consider a language L for which there exists a Turing machine (TM), T , that accepts every word in L and either rejects or loops for every word that is not in L . The language L is

- (1) NP hard
- (2) NP complete
- (3) Recursive
- (4) Recursively enumerable

89. Which of the following conversion is not possible (algorithmically) ?

- (1) Regular grammar to context-free grammar
- (2) Nondeterministic FSA to deterministic FSA
- (3) Nondeterministic PDA to deterministic PDA
- (4) Nondeterministic TM to deterministic TM

90. Which one of the following regular expressions over $\{0, 1\}$ denotes the set of all strings not containing 100 as a substring ?

- (1) $0^*(11^*0)^*$
- (2) 0^*1010^*
- (3) 0^*1^*01
- (4) $0^*(10 + 1)^*$

91. Which of the following is not a level of the SEI CMM ?

- (1) Initial
- (2) Optimizing
- (3) Managed
- (4) Final

92. The analysis phase of software development involves

- (1) Collecting the requirements about what the program will accomplish
- (2) Creating a detailed plan on how the program will accomplish the requirements
- (3) Writing the software with a program such as VB.NET.
- (4) Both (1) and (2)

93. ROOM stands for

- (1) Real Time Object Oriented Methodology
- (2) Redundant Object Oriented Modeling
- (3) Real Time Object Oriented Modeling
- (4) Rapid Object Oriented Modeling

94. Which of the following is not a process metric ?

- (1) Productivity
- (2) Functionality
- (3) Quality
- (4) Efficiency

95. During software development which factor is most crucial ?

- (1) People
- (2) Process
- (3) Product
- (4) Project

96. Spiral Model was developed by

- (1) Bev Littlewood
- (2) Berry Bohem
- (3) Roger Pressman
- (4) Victor Bisili

97. is a black box testing method.

- (1) Boundary value analysis
- (2) Basic path testing
- (3) Code path analysis
- (4) None of above

98. Given a source code with 10 operators includes 6 unique operators, and 6 operand including 2 unique operands. The program volume is

- (1) 43
- (2) 120
- (3) 720
- (4) Insufficient data

99. developed a set of software quality factors that has been given the acronym FURPS - Functionality, Usability, Reliability, Performance, Supportability ?

- (1) Hewlett-Packard
- (2) Rambaugh
- (3) Booch
- (4) Jacobson

100. A quantitative measure of the degree to which a system, component, or process possesses a given attribute ?

- (1) Measure (2) Measurement
- (3) Metric (4) None of these