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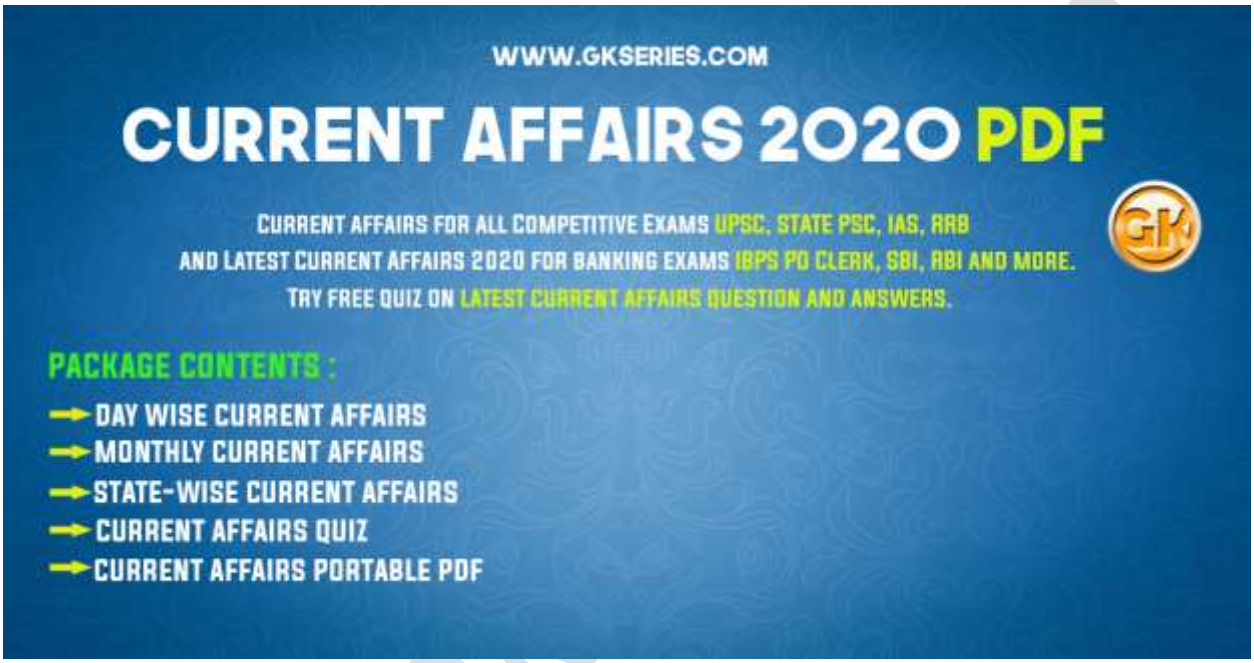

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MCQ on Discrete Mathematics

1. If P then Q is called _____ statement

[A] Conjunction

[B] disjunction

[C] conditional

[D] bi conditional

Answer: Option [C]

2. A relation R in a set X is symmetric if _____

[A] xRy, yRz => xRz.

[B] xRy

[C] xRy=>yRx

[D] xRx

Answer: Option [C]

3. If R is reflexive, symmetric and transitive then the relation is said to be _____.

[A] Binary relation

[B] Compatibility relation

[C] Equivalence relation

[D] Partial order relation

Answer: Option [C]

4. If there are more than 2 LMD for a string then it is said to be _____.

[A] Ambigious

[B] unambigious

[C] language

[D] finite state automata

Answer: Option [A]

5. The specification of proper construction of a sentence is called _____.

[A] alphabet

[B] letter

[C] syntax

[D] word

Answer: Option [C]

6. Context free grammar is also known as _____ grammar.

[A] type 0

[B] type 1

[C] type 2

[D] type 3

Answer: Option [C]

7. Accepting states are denoted by _____.

[A] circle

[B] an arrow mark

[C] double circle

[D] straight line

Answer: Option [C]

8. The set of all finite words over E is denoted by _____.

[A] E+

[B] E*

[C] E

[D]E-

Answer: Option [A]

9. The composition of function is associative but not _____.

[A] commutative

[B] associative

[C] distributive

[D] idempotent

Answer: Option [A]

10. A sum of the variables and their negations in a formula is called _____

[A] elementary sum

[B] elementary product

[C] cnf

[D] dnf

Answer: Option [A]

11. A graph in which every vertex has same degree is called _____ graph.

[A] regular

[B] simple

[C] complete

[D] null

Answer: Option [A]

12. The number of vertices of odd degree in a graph is always _____.

[A] odd

[B] even

[C] zero

[D] one

Answer: Option [B]

13. Traveling salesman problem is example for_____graph.

[A] eulerian

[B] hamiltonian

[C] tournament

[D] planar

Answer: Option [B]

14. If a normal form contains all minterms, then it is _____.

[A] a tautology

[B] a contradiction

[C] a contingency

[D] both A and B

Answer: Option [A]

15. PCNF is also called _____.

[A] sum of product canonical form.

[B] product of sum canonical form

[C] sum canonical form

[D] product canonical form

Answer: Option [B]

16. Max-terms of two statements are formed by introducing the connective _____.

[A] disjunction

[B] conjunction

[C] negation

[D] conditional

Answer: Option [A]

17. The number of relations from A = {a,b,c] to B = {1,2] are _____.

[A] 6

[B] 8

[C] 32

[D] 64

Answer: Option [D]

18. A graph is planar if and only if it does not contain _____.

[A] subgraphs homeomorphic to k3 & k3,3

[B] subgraphs isomorphic to k5 or k3,3

[C] subgraphs isomorphic to k3 & k3,3

[D] sub graphs homeomorphic to k5 or k3,3

Answer: Option [D]

19. sub graphs homeomorphic to k5 or k3,3

[A] one arrow between each pair of distinct vertices

[B] two arrows between each pair of distinct vertices

[C] n-1 arrows between each pair of distinct vertices

[D] path between every two distinct vertices

Answer: Option [A]

20. If a compound statement is made up of three simple statements then the number of rows in the truth table is _____.

[A] 2

[B] 4

[C] 6

[D] 8

Answer: Option [D]

21. If R= {(x, 2x)] and S= {(x, 4x)] then R composition S=___.

[A] {(x, 4x)]

[B] {(x, 2x)]

[C] {(x, 8x)]

[D] {(x, 10x)]

Answer: Option [C]

22. A regular grammar contains rules of the form _____.

[A] A tends to AB

[B] AB tends to a

[C] A tends to aB

[D] AB tends to CD

Answer: Option [C]

23. The NAND statement is a combination of _____.

[A] NOT and AND

[B] NOT and OR

[C] AND and OR

[D] NOT or OR

Answer: Option [A]

24. The NOR statement is a combination of _____.

[A] NOT and AND

[B] NOT and OR

[C] AND and OR

[D] NOT or OR

Answer: Option [B]

25. Which of the following traversal techniques lists the nodes of binary search in ascending order?

[A] pre order

[B] post order

[C] in order

[D] root order

Answer: Option [C]