

SET- 4



**G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY**

**II B. Tech I Sem. Objective – II mid Examination**

**Branch: COMPUTER SCIENCE & ENGINEERING**

**Sub: DISCRETE MATHEMATICS(15A05202) Date: 14-11-2018**

**Section:**

**Roll No:**

**Time: 20 MIN**

**Max.Marks:10**

**I Choose the correct alternative:**

- 1.The non-zero set of integers under multiplication is  
a.Semigroup b. monoid c.group d. none [ ]
- 2.The additive set of integers mod 5 is a -----  
a. Semigroup b. monoid c.group .None [ ]
- 3.. The order of 2 in the additive group of integer mod4 is  
a.2 b.3 c.4 d.5 [ ]
4. The no of ways representing a CR from 35 boys and 16 girls  
of a class is  
a. 35 b.16 c.51 d.P(35,16) [ ]
5. The number of permutations of the word HAPPY is  
a. 90 b.120 c.60 d.40 [ ]
6. if  $|A \cup B| = 62$  ,  $|A|=62$ ,  $|B|=42$  Then  $|A \cap B|$  IS  
A. 24 B.15 C. 36 D.12 [ ]
7. if  $n=3$  the total number of labeled graphs that can be drawn is  
a.4 b.8 c.6 d.15 [ ]
8. If T is a full binary tree whose height is 4 then total number of  
vertices are  
a.32 b.16 c.15 d.31 [ ]
9. The number of edges  $k_7$  has  
a.15 b.20 c.21 d.14 [ ]
10. The chromatic Number of Peterson graph is  
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**II Fill in the blanks**

- 11. The complete Bipartite Graph can be represented as -----
- 12. In-degree of a graph can be defined as -----
- 13. Length of a walk is -----
- 14. Expansion of DFS is -----
- 15. The sum of the degree of all vertices of a Graph is -----
- 16. In a 25 Leaves of a Complete Binary tree contains ----- vertices.
- 17. The order of a Graph can be defined as -----
- 18.  $c(n,r)$  means -----
- 19.  $p(5,2)$  is -----
- 20.  $k_{3,2}$  means -----

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7. The sum of the degree of all vertices of a Graph is -----
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9. The complete Bipartite Graph can be represented as -----
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