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**CMR COLLEGE OF ENGINEERING & TECHNOLOGY**  
(AUTONOMOUS)

B.Tech III Semester Regular Examinations November & December- 2015  
(Regulation: CMRCET-R14)

**Mathematical Foundations of Computer Science**  
(CSE)

Date: 30.11.2015

Time: 3 hours

Max. Marks: 70

## PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

- Write an equivalent formula for  $P \wedge (Q \Leftrightarrow R) \vee (R \Leftrightarrow P)$  which does not contain the bi conditional
- Determine whether the conclusion 'C' follows logically from the premises H1 and H2  
 $H1: P \rightarrow Q$   
 $H2: \neg(P \wedge Q)$   
 $C: \neg P.$
- Show that Every Distributive lattice is modular.
- Prove that every element in a group is its own inverse, then the group is an abelian group.
- How many ways are there to place 20 identical balls into 6 different boxes in which exactly Two boxes are empty.
- Prove that  $2n P_n = 2^n [1.3.5. \dots (2n-1)]$ .
- Find a recurrence relation and give initial conditions for the number of bit strings of length 'n' that do not contain the pattern 11.
- Find the generating function of the sequence 3, -3, 3, -3, 3, -3, ...
- Suppose all vertices in a graph have odd degree 'K'. Show that total number of edges in 'G' is a multiple of 'K'
- Show that  $K_{3,3}$  Bipartite graph is non-planar.

(P.T.O)

# Science Foundation Semester 2

**David Kirk**



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