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Mid Term Exam- 2017

**Sub- Comp.Sc.(G)
FM- 25**

**Class-B.Sc.(G),2nd Yr.
Time:1 hr.**

1. Answer **any five** questions: 2x5
- (a) What is a connected graph?
 - (b) What is White Box Testing?
 - (c) Define Algorithm.
 - (d) What do you mean by time complexity of an algorithm.
 - (e) What is the content of data dictionary?
 - (f) Why is normalization required?
 - (g) What disadvantages of waterfall model are not present in iterative waterfall model
 - (h) What is weak entity set?

GROUP-A

(Answer **any one**)

2. Convert the infix expression to post fix: $A+B-(C*D)/E$
Define degree of a vertex. 3+2
3. Construct a binary tree from the following:
Preorder : A, B, C, D, F, H, J, M, K, E, G, I, L, N
Inorder: A, D, J, M, H, K, F, C, I, N, L, G, E, B.
What is spanning tree? 3+2

GROUP-B

(Answer **any one**)

4. Briefly write about iterative waterfall model. Support your answer with a schematic diagram.
. 3+2
5. What are the features of a good SRS document? Differentiate between Logical and Physical DFD.
. 3+2

GROUP-C

(Answer **any one**)

6. How is hierarchical data model differs from network data model?
How DBMS is better than traditional file processing system?
Define Primary key. 2+2+1
7. Explain the function of "Order by", "Like", "Group by" in SQL.
What is normalization? Explain 1NF. 3+1+1