

GATE 2015 – A Brief Analysis
(Based on student test experiences in the stream of CS on 7th
February, 2015 – (Afternoon Session))

Section wise analysis of the paper

Section Classification	1 Mark	2 Marks	Total Number of Questions
Engineering Mathematics	2	3	5
Discrete Mathematics	2	3	5
Digital Logic	1	2	3
Computer Organization	1	2	3
Theory of Computation	1	3	4
Data Structures & Algorithms	9	7	16
Compiler Design	2	1	3
Operating Systems	2	2	4
DBMS	1	2	3
Computer Networks	2	3	5
SEWT	2	2	4
Verbal Ability	3	2	5
Numerical Ability	2	3	5
	30	35	65

Disclaimer – This paper analysis and questions have been collated based on the memory of some students who appeared in the paper and should be considered only as guidelines. GATEFORUM does not take any responsibility for the correctness of the same.

Questions from the Paper

1. What is cardinality of the power set of the set $\{0,1,2,\dots,10\}$? _____
2. If two the sub trees of the root of the complete binary tree are max. heaps, then the time complexity of the make it Max-heap is _____.
3. What is the no of divisions of 2100? _____ .
4. If a & b are +ve integers, then $a R b$. If they have common divisor other than 1, then R is?
(A) transitive (B) symmetric (C) reflexive (D) None of these
5. Minimum no. of states in DFA accepting the language; $(0+1)^*01$ is _____.
6. What is the order of execution of the system calls in unix?
bind
listen
accept
receive
7. In a binary tree if no of leaves is 20 then no. of nodes having 2 children is _____ .
8. No. of onto functions from 3 element set to 4 element set is _____ .
9. Set A contains, 2 elements, set B contains 20 elements. What is the probability that a given function is one-one? _____
10. At which points the function $f(x) = 1 - |x|$ has maximum & minimum values? _____.