

FACULTY RECRUITMENT TEST

CATEGORY-A

JEE Main & JEE Advanced

MATHEMATICS

PAPER – B

Time: 60 Minutes.

Maximum Marks: 40

Name:	Marks:	
Subject:		

Instructions:

- ← Attempt all questions.
- ← This question paper has two Parts, I and II. Each question of Part I carries 2 marks and of Part II carries 5 marks.
- ← Calculators and log tables are not permitted

PART – I

1. If $(1 + x)^n = {}^nC_0 + {}^nC_1x + \dots + {}^nC_nx^n$, where n is a positive integer, then find the value of ${}^nC_0 + {}^nC_2 + {}^nC_4 + \dots$
2. If $0 < x < 1000$ and $\left\lfloor \frac{x}{2} \right\rfloor + \left\lfloor \frac{x}{3} \right\rfloor + \left\lfloor \frac{x}{5} \right\rfloor = \frac{31}{30}x$, (where $\lfloor . \rfloor$ denotes the greatest integer function), then find the number of possible values of x .
3. If $\log_{10}6 = x$, $\log_{10}54 = y$, then find the value of $xy + (5x - 2y) + 4$.
4. There are 10 pairs of shoes in a cupboard, from which 4 shoes are picked at random, then find the probability of atleast one pair.
5. If $f(n+1) = \frac{2f(n)+1}{2}$, $n = 1, 2, 3, \dots$ and $f(1) = 2$, then find the value of $f(101)$.
6. Find the solution of the differential equation $\left\{ y \left(1 + \frac{1}{x} \right) + \sin y \right\} dx + (x + \ln x + x \cos y) dy = 0$.
7. A line is drawn through a fixed point $P(\alpha, \beta)$ to cut the circle $x^2 + y^2 = r^2$ at A and B. Then find the value of $PA \cdot PB$.
8. Find the length of latus rectum of the parabola whose parametric equation is $x = t^2 + t + 1$, $y = t^2 - t + 1$, where $t \in \mathbb{R}$.

Maths Paper B 2011

Katrin Zwirgmaier



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