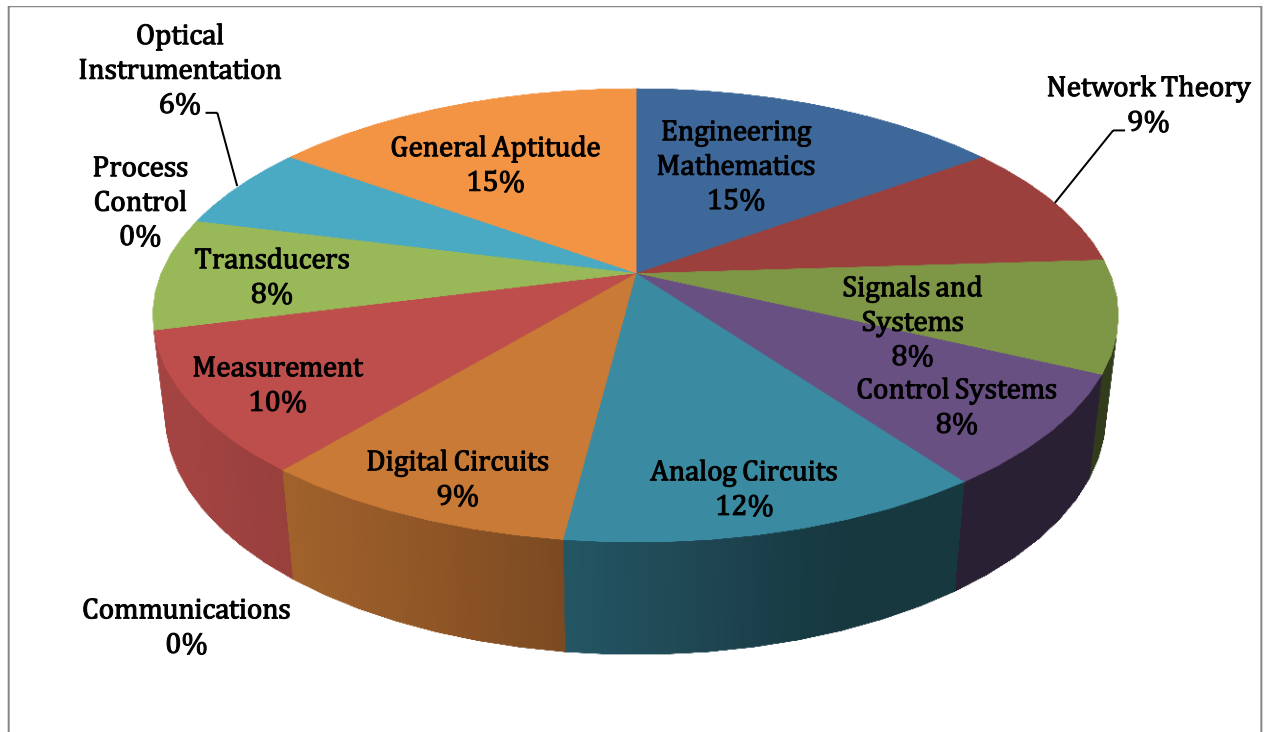


## ANALYSIS OF GATE 2018\*

### Instrumentation Engineering



**IN ANALYSIS-2018\_4-Feb\_Afternoon**

SUBJECT	No. of Ques.	Topics Asked in Paper(Memory Based)	Level of Ques.	Total Marks
Engineering Mathematics	1 Marks: 5 2 Marks: 5	Linear Algebra; Statistics and Probability; Calculus;	Easy	15
Network Theory	1 Marks: 3 2 Marks: 3	Basic Components and types of circuits; Basic Laws and Methods; Steady state analysis of AC Circuits	Tough	9
Signals and Systems	1 Marks: 2 2 Marks: 3	Fourier Representation of Signals; Frequency Response of LTI Systems and Diversified Topics	Tricky/Easy	8
Control Systems	1 Marks: 2 2 Marks: 3	Bode Plots; Phase Margin.	Tricky/Easy	8
Analog Circuits	1 Marks: 4 2 Marks: 4	Diode Circuits-Analysis and Application; Operational Amplifiers & Its Applications	Tough	12
Digital Circuits	1 Marks: 3 2 Marks: 3	Combinational & Sequential Digital Circuits; Introduction to Microprocessor	Tricky/Easy	9
Communications	1 Marks:0 2 Marks:0	-		0
Measurement	1 Marks: 2 2 Marks: 4	Basics of Measurements and Error Analysis; Measurements of Basic Electrical Quantities Electronic Measuring Instruments	Tough/Medium	10
Transducers	1 Marks: 2 2 Marks: 3	Strain Gauge; Ultrasonic Flow Meter	Medium	8
Process Control	1 Marks: 0 2 Marks: 0	-	-	0
Optical Instrumentation	1 Marks: 2 2 Marks:2	Optical Sources and Detectors;	Tough	6
General Aptitude	1 Marks: 5 2 Marks: 5	Algebra, Vocabulary, Data Interpretation, TSD	Easy	15
<b>Total</b>	<b>65</b>			<b>100</b>
<b>Faculty Feedback</b>	Majority of the question were concept based. General Aptitude And Mathematics is Very Easy. Core Subject Questions were 50% easy, 30% medium and 20% tough.			

## GATE 2018 Examination\*

### Instrumentation Engineering

Test Date: 4/02/2018

Test Time: 2:00 PM 5:00 PM

Subject Name: Instrumentation Engineering

#### General Aptitude

Q.1 - Q.5 Carry One Mark each.

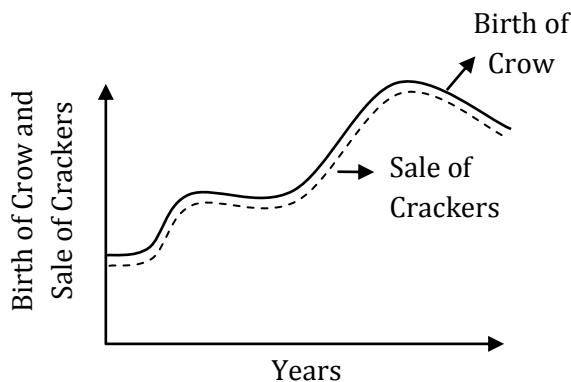
1. In spite of multiple warnings, he did not correct his \_\_\_\_\_ behaviour.  
 (A) Good (B) Jovial  
 (C) Erratic (D)

[Ans. C]

2.  $(x - 2)^2 = 2x - 1$ , find the minimum value of  $x$ , satisfying the given condition.  
 (A) 1 (B) 2  
 (C) 3 (D) 0

[Ans. A]

3. Graph



- (A) Birth of crow depends on sale of cracker.  
 (B) Sale of crackers depends on the birth of crow.  
 (C) There is strong correlation between birth of crow and sale of cracker.  
 (D) Birth of crow will influence the sale of cracker.

[Ans. C]

4. If  $x^2 + x - 1 = 0$ , find the value of  $x^4 + \frac{1}{x^4}$

[Ans. 7]

5. She fell down from \_\_\_\_\_ and she got more \_\_\_\_\_ than help.  
 (A) Stair, Stare (B) Stare, Stair  
 (C) Stare, Stare (D) Stair, Stair

[Ans. A]

**Q.6 - Q.10 Carry Two Mark each.**

6. A person is travelling from city A to city B and return to city A in the same route. His speed was constant both onwards and return and the rate was 60 km/hrs and 90 km/hrs respectively. Find the average speed.  
[Ans. 72]
7. Area of equilateral triangle is  $\sqrt{3}$ . Find Perimeter.  
[Ans. 6]

**MORE QUESTIONS UPDATE SOON**