Instrumentation engineering-Gate 2021 Analysis		
	1 Marks	2 Marks
Engineering Mathematics	2	6
Networks	0	2
Analog Circuits	1	4
Digital Circuits	4	3
Signals and Systems	4	1
Control Systems	3	2
Communication	1	1
Measurements	2	3
Process Control	0	0
Sensor and Industrial Instrumentation	0	0
Optical Instrumentation	2	0
Electrical Machines	2	2
Transducers	3	4
Field Theory	1	2

Type	1M	2M	Total Marks
NAT	12	20	52
MCQ	12	8	28
MSQ	1	2	5
	25M	60M	85M

GENERAL APTITUDE

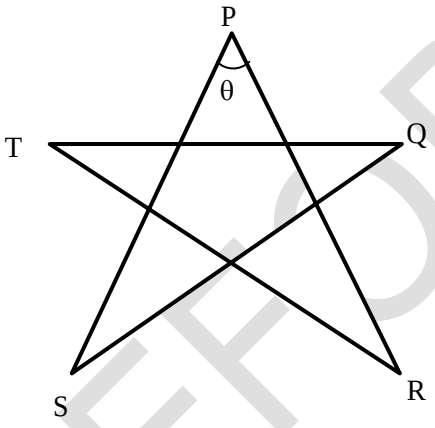
Memory based Questions

Q.No.1-5 Carry One Mark Each

1. Going to top is _____ than staying on top.

   (A) much easy (B) more easy (C) easiest (D) easier

2. In the following figure the lines PR, PS, QS, QT, RT having equal lengths. Then the angle ' θ ' is



   (A) 45° (B) 72° (C) 36° (D) 108°

3. If the word TRIANGLE is reflected horizontally, then the reflected pattern is

4. Either P marry Q (or) X marry Y which of the following statements is logical negation of the above statement?

   (A) Neither P marries Q nor X marries Y

   (B) X does not marry Y and P marry Q

   (C) P does not marry Q and X marry Y

   (D) P marries Q and X marries Y

5. Two rectangular sheets M and N having equal dimensions 6cm × 4 cm

Folding operation 1: The shortage of this sheet is folded to make the two-equalhalf.

Folding equation 2:The longest of this sheet is folded to make the two-equal half.

If operation 1 is done three times to sheet M and operation 2 is done two times to sheet N then the ratio of perimeter of sheet N:M is

(A) 3:2 (B) 7:5 (C) 5:13 (D) 13:7

Q.No.6-8 Carry Two Marks Each

6. $P \oplus Q = \frac{P^2 + Q^2}{PQ}, P \odot Q = \frac{P^2}{Q}$

$x \oplus y = 2 \odot 2$ then which of the following is true?

(A) x= y (B) x = 2y (C) $x = \frac{3y}{2}$ (D) $x = \frac{y}{2}$

7. In a company 35% of employee's drinks Coffee, 40% of employee's drinks tea, 10% of employees drinks both tea and coffee. How many % of employeesdoes not drink neither Coffee nor tea?

8. $\lambda(P,Q) = \begin{cases} (P-Q)^2; & P \geq Q \\ P+Q \;\; ; & P < Q \end{cases}$

Then find the value of

$$\frac{\lambda\left(-(-3+2),(-2+3)\right)}{\left(-(-2+11)\right)}$$

(A) 16 (B) $\frac{16}{3}$ (C) –1 (D) 0

Disclaimer: Based on student test experiences in the stream of IN, we have analyzed the questions which will help you understand the pattern and will give you an edge in your upcoming exam.