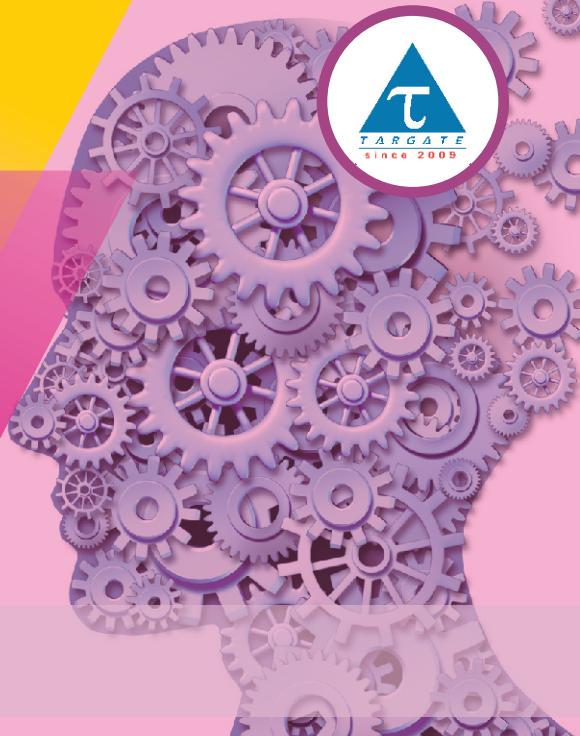


GATE-2020 QUESTIONS

GENERAL APTITUDE

(TOTAL QUESTIONS : 30)

STREAM : EC | EE | IN



Marks Distribution Branch Wise (EC | EE | IN)

EC = 05 Questions (1 Mark) + 05 Questions (2 Marks) = 10 Questions (15 Marks)

EE = 05 Questions (1 Mark) + 05 Questions (2 Marks) = 10 Questions (15 Marks)

IN = 05 Questions (1 Mark) + 05 Questions (2 Marks) = 10 Questions (15 Marks)

GATE Syllabus : Common to All Branch

General Aptitude

Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.

Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.

Note :

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EC: Electronics and Communication Engineering

1 Mark Questions

1. The global financial crisis in 2008 is considered to be the most serious world-wide financial crisis, which started with the sub-prime lending crisis in USA in 2007. The sub-prime lending crisis led to the banking crisis in 2008 with the collapse of Lehman Brothers in 2008. The sub-prime lending refers to the provision of loans to those borrowers who may have difficulties in repaying loans, and it arises because of excess liquidity following the East Asian crisis.

Which one of the following sequences shows the correct precedence as per the given passage?

- (A) Subprime lending crisis → global financial crisis → banking crisis → East Asian crisis.
 - (B) East Asian crisis → subprime lending crisis → banking crisis → global financial crisis.
 - (C) Global financial crisis → East Asian crisis → banking crisis → subprime lending crisis.
 - (D) Banking crisis → subprime lending crisis → global financial crisis → East Asian crisis.

Ans. B

- 2.** Select the word that fits the analogy :

Explicit: Implicit :: Express : _____.

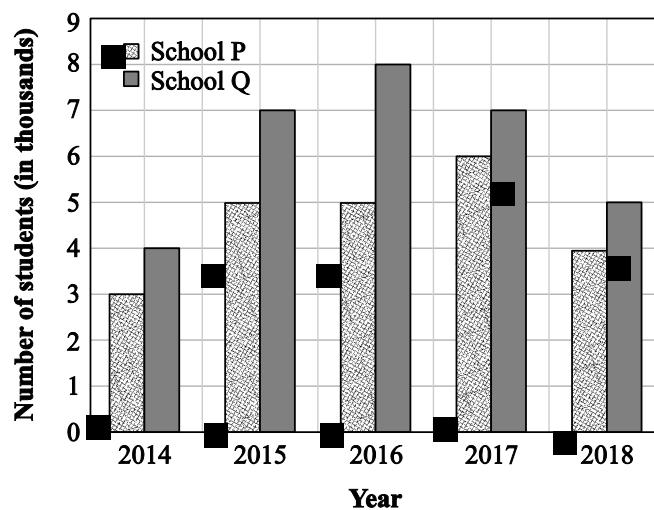
Ans. C

3. It is quarter past three in your watch. The angle between the hour hand and the minute hand is _____.

- (A) 22.5° (B) 15° (C) 0° (D) 7.5°

Ans. D

4. The following figure shows the data of students enrolled in 5 years (2014 to 2018) for two schools P and Q. During this period, the ratio of the average number of the students enrolled in school P to the average of the difference of the number of students enrolled in schools P and Q is ____.



Ans. B

5. a, b, c are real numbers. The quadratic equation $ax^2 - bx + c = 0$ has equal roots, which is β , then

- (A) $\beta^3 = bc / (2a^2)$ (B) $\beta^2 = ac$ (C) $\beta = b / a$ (D) $b^2 \neq 4ac$

Ans. A

2 Marks Questions

Ans. C

2. He was not only accused of theft ____ of conspiracy.

(A) rather (B) but also (C) rather than (D) but even

Ans. B

3. The Canadian constitution requires that equal importance be given to English and French. Last year, Air Canada lost a lawsuit, and had to pay a six-figure fine to a French-speaking couple after they filed complaints about formal in-flight announcements in English lasting 15 seconds, as opposed to informal 5 second messages in French.

The French-speaking couple were upset at

- (A) equal importance being given to English and French.
 - (B) the English announcements being longer than the French ones.
 - (C) the in-flight announcements being made in English.
 - (D) the English announcements being clearer than the French ones.

Ans. B

4. A superadditive function $f(\cdot)$ satisfies the following property

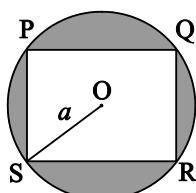
$$f(x_1 + x_2) \geq f(x_1) + f(x_2)$$

Which of the following functions is a superadditive function for $x > 1$?

- (A) $\frac{1}{x}$ (B) \sqrt{x} (C) e^{-x} (D) e^x

Ans. D

5. A circle with centre O is shown in the figure. A rectangle PQRS of maximum possible area is inscribed in the circle. If the radius of the circle is a , then the area of the shaded portion is _____.



- (A) $\pi a^2 - \sqrt{2}a^2$ (B) $\pi a^2 - 3a^2$ (C) $\pi a^2 - a^2$ (D) $\pi a^2 - 2a^2$

Ans. D

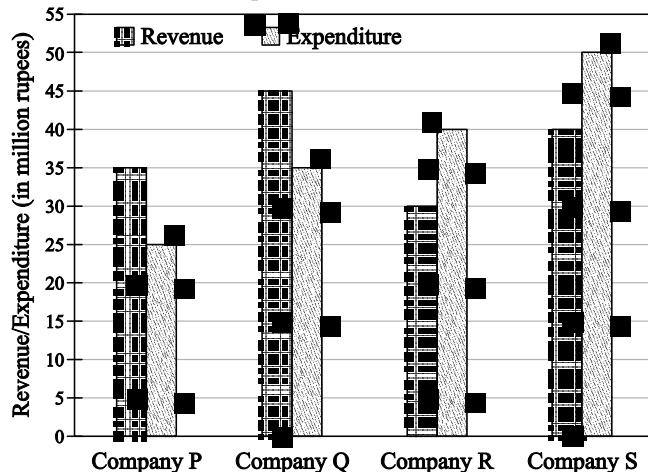
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EE: Electrical Engineering

1 Mark Questions

1. The revenue and expenditure of four different companies P, Q, R and S in 2015 are shown in the figure. If the revenue of company Q in 2015 was 20% more than that in 2014, and company Q had earned a profit of 10% on expenditure in 2014, then its expenditure (in million rupees) in 2014 was ____.

Revenue and Expenditure (in million rupees) of four companies P, Q, R and S in 2015



- (A) 32.7 (B) 33.7 (C) 34.1 (D) 35.1

Ans. C

2. Stock markets _____ at the news of the coup.

- (A) poised (B) plunged (C) plugged (D) probed

Ans. B

3. Select the word that fits the analogy :

Do : Undo :: Trust : _____

- (A) Entrust (B) Intrust (C) Untrust (D) Distrust

Ans. C

4. This book, including all its chapters, _____ interesting. The students as well as the instructor _____ in agreement about it.

- (A) is, was (B) are, are (C) is, are (D) were, was

Ans. C

5. People were prohibited _____ their vehicles near the entrance of the main administrative building.

- (A) to park (B) from parking
(C) parking (D) to have parked

Ans. B

2 Marks Questions

1. If P, Q, R, S are four individuals, how many teams of size exceeding one can be formed, with Q as a member ?

- (A) 5 (B) 6 (C) 7 (D) 8

Ans. C

2. Non-performing Assets (NPAs) of a bank in India is defined as an asset, which remains unpaid by a borrower for a certain period of time in terms of interest, principal, or both. Reserve Bank of India (RBI) has changed the definition of NPA thrice during 1993-2004, in terms of the holding period of loans. The holding period was reduced by one quarter each time. In 1993, the holding period was four quarters (360 days).

Based on the above paragraph, the holding period of loans in 2004 after the third revision was ____ days.

Ans. B

3. Select the next element of the series : Z, WV, RQP, _____

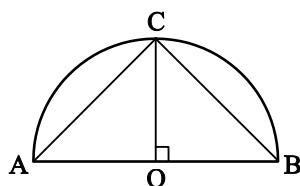
- (A) LKJI (B) JIHG (C) KJIH (D) NMLK

Ans. C

4. In four-digit integer numbers from 1001 to 9999, the digit group “37” (in the same sequence) appears ____ times.

Ans. C

5. Given a semicircle with O as the centre, as shown in the figure, the ratio $\frac{\overline{AC} + \overline{CB}}{\overline{AB}}$ is _____, where \overline{AC} , \overline{CB} and \overline{AB} are chords.



- (A) $\sqrt{2}$ (B) $\sqrt{3}$ (C) 2 (D) 3

Ans. A

* * * *

IN: Instrumentation Engineering

1 Mark Questions

1. He is known for his unscrupulous ways. He always sheds _____ tears to deceive people.

(A) fox's (B) crocodile's (C) crocodile (D) fox

Ans. C

B [GATE-IN-2020-IITD]

Ans. B

3. Crowd funding deals with mobilisation of funds for a project from a large number of people, who would be willing to invest smaller amounts through web-based platforms in the project

Based on the above paragraph, which of the following is correct about crowd funding ?

(A) Funds raised through unwilling contributions on web-based platforms.

(B) Funds raised through large contributions on web-based platforms.

(C) Funds raised through coerced contributions on web-based platforms.

(D) Funds raised through voluntary contributions on web-based platforms.

Ans. D

C [GATE-IN-2020-IITD]

4. Select the word that fits the analogy:
Build : Building :: Grow : _____.
(A) Grow (B) Grew (C) Growth (D) Grown

Ans. C

5. The sum of the first n terms in the sequence 8, 88, 888, 8888, is _____.

$$(\text{A}) \frac{81}{80}(10^n - 1) + \frac{9}{8}n$$

$$(\mathbf{B}) \quad \frac{81}{80}(10^n - 1) - \frac{9}{8}n$$

$$(\mathbf{C}) \frac{80}{81}(10^n - 1) + \frac{8}{9}n$$

$$(\mathbf{D}) \quad \frac{80}{81}(10^n - 1) - \frac{8}{9}n$$

Ans. D

2 Marks Questions

1. Jofra Archer, the England fast bowler, is ____ than accurate.

(A) more fast (B) faster (C) less fast (D) more faster

Ans A

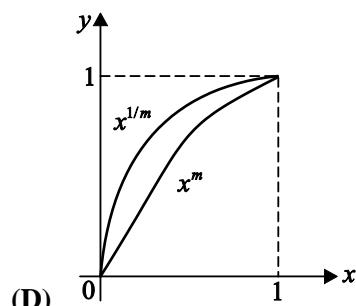
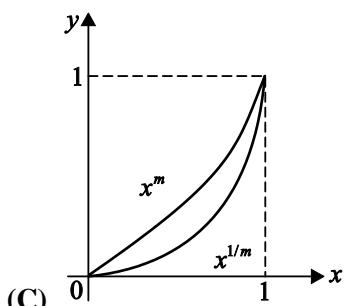
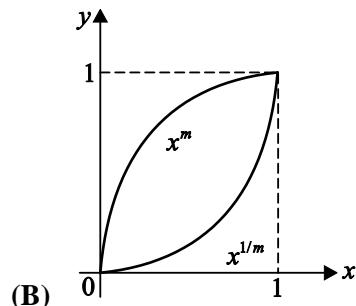
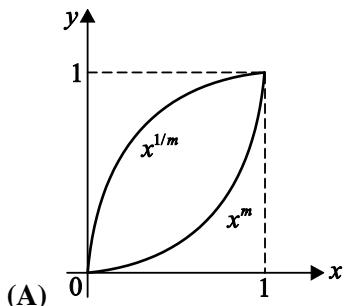
2. Define $[x]$ as the greatest integer less than or equal to x , for each $x \in (-\infty, \infty)$. If $y = [x]$, then area under y for $x \in [1, 4]$ is _____.
(A) 1 (B) 3 (C) 4 (D) 6

Ans. D

3. P, Q, R and S are to be uniquely coded using α and β . If P is coded as $\alpha\alpha$ and Q as $\alpha\beta$, then R and S, respectively, can be coded as _____.
 (A) $\beta\alpha$ and $\alpha\beta$ (B) $\beta\beta$ and $\alpha\alpha$ (C) $\alpha\beta$ and $\beta\beta$ (D) $\beta\alpha$ and $\beta\beta$

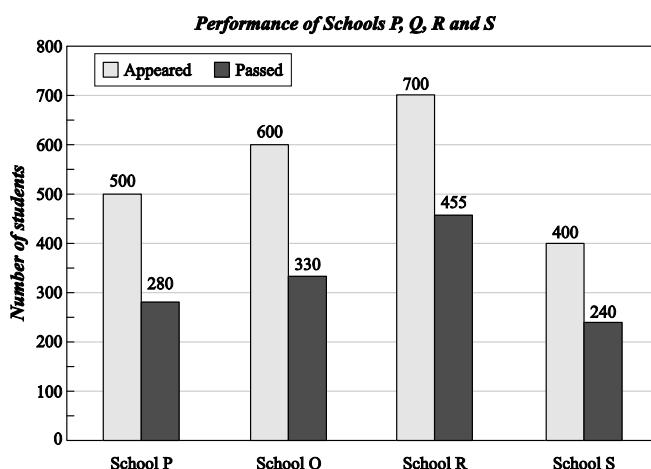
Ans. D

4. Select the graph that schematically represents BOTH $y = x^m$ and $y = x^{1/m}$ properly in the interval $0 \leq x \leq 1$, for integer values of $m > 1$.



Ans. A

5. The bar graph shows the data of the students who appeared and passed in an examination for four schools P, Q, R and S. The average of success rates (in percentage) of these four schools is _____.
 (A) 58.5% (B) 58.8% (C) 59.0% (D) 59.3%



Ans. C



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