

**GATE 2021**



**Exam Analysis**

**CE-Set-1**

**ANALYSIS OF GATE 2021**

Memory Based

**Civil Engineering**

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**CE ANALYSIS-2021\_Feb-6\_Morning**

SUBJECT	No. of Ques.	Topics Asked in Paper(Memory Based)	Level of Ques.	Total Marks
Engineering Mathematics	1 Marks: 2 Marks:			
Transportation	1 Marks: 2 Marks:			
Engineering Mechanics	1 Marks: 2 Marks:			
Mechanics of Material	1 Marks: 2 Marks:			
Irrigation & Hydrology	1 Marks: 2 Marks:			
Geotechnical Engineering	1 Marks: 2 Marks:			
Environmental Engineering	1 Marks: 2 Marks:			
Fluid Mechanics	1 Marks: 2 Marks:			
Surveying	1 Marks: 2 Marks:			
Structural Analysis	1 Marks: 2 Marks:			
Reinforced Concrete Cement	1 Marks: 2 Marks:			
Steel Structure	1 Marks: 2 Marks:			
Construction Materials & Management	1 Marks: 2 Marks:			
General Aptitude	1 Marks: 2 Marks:			
<b>Total</b>	<b>65</b>			<b>100</b>
Faculty Feedback				



## GATE 2021 Examination\* (Memory Based)

## Civil Engineering

Test Date: 6<sup>th</sup> Feb-2021

Test Time: 09:30 am to 12:30 pm

Stream Name: Civil Engineering

## General Aptitude

1. Let  $\oplus$  and  $\odot$  are two operators on p and q

$$p \oplus q = \frac{p^2 + q^2}{pq} \text{ and } p \odot q = \frac{p^2}{q}$$

If  $x \oplus y = 2 \odot 2$ , then x will be equal to

- (A) 2y  
(B) y/2  
(C) 3y/2  
(D) y

[Ans. D]

2. Getting to the top is \_\_\_\_\_ than staying on top.

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

[Ans. A]

3. Two papers M and N have identical dimension of 6m \* 4m.

**Operation 1:** Folded the paper joining the short sides

**Operation 2:** Folded the paper joining the longer sides.

If operation 1 is done on paper M and operation 2 is done on paper N, then the ratio of perimeter of paper N to M is

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

[Ans. D]



4. Humans have the ability to construct worlds entirely in their mind, which does not exist in the physical world. So far as we know, no other species possess this. This skill is so important that we have different words to refer to its different flavors such as imagination invention and innovation.

With respect to the above, which of the following is correct?

- (A) Ima, invention and innovation are unrelated to the ability to construct mental world  
 (B) We do not know any species than humans who possess ability to construct mental world  
 (C) Ima..., Invention..., and innovation refers to unrelated skills  
 (D) No species possess ability to construct mental world.

[Ans. \*]

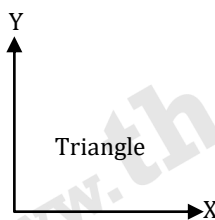
5. Let  $\lambda(p, q) = \begin{cases} (p - q)^2 & \text{if } p \geq q \\ p + q & \text{if } p < q \end{cases}$

Then  $\frac{\lambda(-(-3+2), (-2+3))}{(-(-2+1))}$  will be

- (A) 16/3  
 (B) 16  
 (C) 0  
 (D) -1

[Ans. \*]

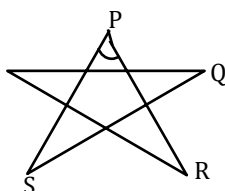
6. What will be the mirror image of the following?



- (A)  
 (B)  
 (C)  
 (D)

[Ans. \*]

7. Following shape is formed by 5 equal length segments PR, PS, TQ, TR, and QS. what will be the angle  $\theta$  ?



[Ans. \*]36



8. In a company ,35% employees drink coffee, 40%. Drink tea and 10% .drink both tea and coffee .Then how much percentage of employees will neither drink coffee nor tea ?
- (A) 40%  
(B) 15%  
(C) 25%  
(D) 35%

**[Ans. D]**

9. For persons P, Q, R, S are to be seated in a row facing same direction .P and Q cannot be seated adjacent .S should be seated right of Q. Then how many distinct seating arrangement is possible?
- (A) 6  
(B) 8  
(C) 2  
(D) 4

**[Ans. D]**

10. A

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Technical

- 1. A
- 2. A
- 3. A
- 4. A
- 5. A
- 6. A
- 7. A
- 8. A
- 9. A
- 10. A
- 11. A
- 12. A
- 13. A
- 14. A
- 15. A

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- 16. A
- 17. A



- 18. A
- 19. A
- 20. A
- 21. A
- 22. A
- 23. A
- 24. A
- 25. A

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- 26. A
- 27. A
- 28. A
- 29. A
- 30. A
- 31. A
- 32. A
- 33. A
- 34. A
- 35. A
- 36. A
- 37. A
- 38. A
- 39. A
- 40. A

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- 41. A
- 42. A
- 43. A
- 44. A
- 45. A
- 46. A
- 47. A
- 48. A
- 49. A
- 50. A
- 51. A
- 52. A

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