GATE   Hinglish

General Aptitude
Quantitative Aptitude
Number System

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1. What will be the remainder if 3^{193} is divided by 8?

(a) 6   (b) 1

(c) 5   (d) 3

2. What is the smallest number that when subtracted from 63407 makes it exactly divisible by 9?

(a) 4   (b) 3

(c) 2   (d) 1

3. Find the remainder when 3^{51} is divided by 5.

(a) 2   (b) 1

(c) 4   (d) 3

4. If the number 653ab is divisible by 90, then (a + b) =?

(a) 13

(b) 4

(c) 22

(d) 8

5. What would be the unit digit in the answer of:
$369^{28} + 167^{44}$

(a) 1   (b) 6

(c) 2   (d) 7

6. What is the least number that when divided by any of the numbers 7, 16, 28 leaves a remainder of 3 ?

(a) 116   (b) 115

(c) 227   (d) 113

7. The only natural number which is neither prime nor composite is?

(a) 1   (b) 0

(c) 13   (d) 3

8. Which largest number of 5 digits is divisible by 99?

(a) 99999   (b) 99981

(c) 99909   (d) 99990

9. What should be greatest possible length of a scale which can be used to measure exactly the lengths 7 m, 3 m 85 cm, 12 m 95 cm is

(a) 25 cm   (b) 35 cm

(c) 45 cm   (d) 55 cm

10. Find the least multiple of 7, which leaves a remainder of 4, when divided by 6, 9, 15 and 18 is:

(a) 94   (b) 184

(c) 274   (d) 364

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Answer Key

1. (d)	6. (b)
2. (c)	7. (a)
3. (a)	8. (d)
4. (b)	9. (b)
5. (c)	10. (d)

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