

Number system-2 test

Q1. Find the last two digits in 7^{3008}

- (a) 01 (b) 21 (c) 41 (d) 61

Q2. Three wheels can complete 60, 36 and 24 revolutions per minute. There is red spot on the circumference of each wheel that touches the ground at time zero. After how much time will these spots simultaneously touch the ground again?

- (a) $5/2$ Seconds (b) 5 seconds (c) $5/3$ seconds (d) 6 seconds (e) None of these

Q3. What is the remainder when 2^{96} is divided by 96

- (a) 2 (b) 64 (c) 32 (d) 95

Q4. The remainder when $15^{23} + 23^{23}$ is divided by 19 is:

- (a) 0 (b) 1 (c) 7 (d) 18

Q5. Find the remainder in $18^{100}/19$

- (a) 1 (b) 18 (c) 2 (d) -1 (e) None of these

Q6. Find the remainder in $2^{185}/33$

- (a) 1 (b) -1 (c) 32 (d) None of these

Q7. Find the remainder in following expression $2^{410}/33$

- (a) 1 (b) 0 (c) 32 (d) 33

Q8. Find the remainder theorem in the following $39^{128}/25$

- (a) 1 (b) 6 (c) 24 (d) None of these

Q9. What is the remainder of $19^{2200002}/23$?

- (a) 16 (b) 22 (c) 1 (d) -1

Q10. How many numbers from 1 to 300 can neither be divisible by 2, nor by 3 nor by 5?

- (a) 80 (b) 90 (c) 96 (d) 120

Answer key

1	A	3	B	5	A	7	A	9	A
2	B	4	A	6	C	8	B	10	A