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#### **Exercise: Numbers - General Questions**

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- 1. Which one of the following is not a prime number?
  - **(A)** 31
  - **B** 61
  - **©** 71
  - **1** 91

# Answer: Option (1)

# **Explanation:**

91 is divisible by 7. So, it is not a prime number.









- 2.  $(112 \times 5^4) = ?$ 
  - **(A)** 67000
  - **B** 70000
  - **©** 76500
  - **1** 77200

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Answer: Option (B)

### **Explanation:**

$$(112 \times 5^4) = 112 \times \left(\frac{10}{2}\right)^4 = \frac{112 \times 10^4}{2^4} = \frac{1120000}{16} = 70000$$









- 3. It is being given that  $(2^{32} + 1)$  is completely divisible by a whole number. Which of the following numbers is completely divisible by this number?
  - **(A)**  $(2^{16} + 1)$
  - **B** (2<sup>16</sup> 1)
  - (c)  $(7 \times 2^{23})$
  - **(1)** (2<sup>96</sup> + 1)

# Answer: Option (1)

# **Explanation:**

Let  $2^{32} = x$ . Then,  $(2^{32} + 1) = (x + 1)$ .

Let (x + 1) be completely divisible by the natural number N. Then,

 $(2^{96} + 1) = [(2^{32})^3 + 1] = (x^3 + 1) = (x + 1)(x^2 - x + 1)$ , which is completely divisible by N, since (x + 1) is divisible by N.









- 4. What least number must be added to 1056, so that the sum is completely divisible by 23?
  - **(A)** 2
  - **B** 3
  - **©** 18
  - ① 21
  - (E) None of these

# **Answer:** Option (R)

#### **Explanation:**

- 23) 1056 (45 92

  - 136
  - 115
  - 21

Required number = (23 - 21) = 2









5. 1397 × 1397 = ?

- **(A)** 1951609
- **B** 1981709
- **©** 18362619
- **(1)** 2031719
- (E) None of these

Answer: Option (A)

## **Explanation:**

 $1397 \times 1397 = (1397)^2$ 

 $= (1400 - 3)^2$ 

 $= (1400)^2 + (3)^2 - (2 \times 1400 \times 3)$ 

= 1960000 + 9 - 8400

= 1960009 - 8400

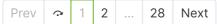
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