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| --- | --- |
| **Q.No.** | **Question** |
| 1. | The value of  is:  (a)  (b)  (c)  (d) |
| 2. | The simplified form of  is:  (a) 0 (b)  (c) 1 (d) |
| 3. | (160.16 × 20.36) is equal to  (a) 2 (b) 16 (c) 32 (d) 64 |
| 4. | The value of  is:  (a) 5.375 (b) 1 (c) 6 (d) 5 |
| 5. | The value of  is:  (a) 1.00 (b) 1.25 (c) 1.50 (d) 2.25 |
| 6. | The simplified form of  is:  (a) 5 (b) 2 (c) 1 (d) 0 |
| 7. | equal to  (a)  (b)  (c)  (d) |
| 8. | is equal to  (a) 1 (b) 3 (c)  (d) |
| 9. | is equal to:  (a)  (b)  (c)  (d) |
| 10. | Simplify:  (a)  (b)  (c) 1 (d) 0 |
| 11. | simplifies to:  (a)  (b)  (c)  (d) |
| 12. | is equal to  (a) 32 (b) 8 (c) 1 (d) 0 |
| 13. | is equal to  (a) 5 (b) 1 (c) 3 (d) 0 |
| 14. | Simplified form of  is  (a) x5 (b) x–5 (c) x (d) |
| 15. | is equal to  (a)  (b)  (c)  (d) |
| 16. | is equal to:  (a)  (b) 16 (c)  (d) – 16 |
| 17. | The value of  is  (a) 0.005 (b) 0.05 (c) 0.5 (d) 0.0005 |
| 18. | Let . Then we have  (a) a < 18 but a ≠ 9 (b) a > 18 (c) a = 18 (d) a = 9 |
| 19. | The value of  is  (a) 1 (b) 9 (c)  (d) |
| 20. | equal to  (a)  (b)  (c) 1 (d) 2 |
| 21. | If , then B – A is  (a) – 13 (b)  (c) 13 (d) |
| 22. | Find the simplest value of  (given  = 1.414).  (a) 4.242 (b) 9.898 (c) 10.312 (d) 8.484 |

**QUESTIONS BASED ON FINDING THE LARGEST/GREATEST AND LEAST/SMALLEST VALUE**

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| **Q.No.** | **Question** |
| 1. | Which of the following is the biggest?  (a)  (b)  (c)  (d) |
| 2. | Arrange the following in descending order:  (a)  (b)  (c)  (d) |
| 3. | The smallest of  is:  (a)  (b)  (c)  (d) |
| 4. | Which is the greatest among  (a)  (b)  (c)  (d) |
| 5. | The greatest among  is  (a)  (b)  (c)  (d) |
| 6. | The least one of  is  (a)  (b)  (c)  (d) |
| 7. | The greatest number among 260, 348, 436 and 524 is  (a) 260 (b) 348 (c) 436 (d) 524 |
| 8. | The smallest among  is  (a)  (b)  (c)  (d) |
| 9. | The greatest among the numbers , 0.5 and  is  (a)  (b)  (c) 0.5 (d) |
| 10. | Among the following numbers  the least one is:  (a)  (b)  (c)  (d) |
| 11. | Out of the numbers 0.3, 0.03, 0.9, 0.09 the number that is nearest to the value of  is  (a) 0.3 (b) 0.03 (c) 0.9 (d) 0.09 |

**IF  = A IS GIVEN (WHERE X = 1, 2, 3…, AND ‘A’ IS THE CORRECT VALUE OF ), FIND THE VALUE OF GIVEN EQUATION**

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| **Q.No.** | **Question** |
| 1. | Given  = 1.414. The value of  is  (a) 8.484 (b) 8.526 (c) 8.426 (d) 8.876 |
| 2. | If  = 3.88, then what is the value of  (a)  (b) 1.2934 (c) 1.29 (d) 1.295 |
| 3. | If  = 1.732, then what is the value of  upto three places of decimal?  (a) 0.023 (b) 0.464 (c) 2.464 (d) 3.023 |
| 4. | Evaluate:  if  = 3.46  (a) 3.46 (b) 10.38 (c) 13.84 (d) 24.22 |

**QUESTIONS BASED ON RATIONALISING OR PRIME FACTOR**

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| **Q.No.** | **Question** |
| 1. | A rationalising factor of  is  (a)  (b)  (c)  (d) |
| 2. | The total number of prime factors in 410 × 73 × 162 × 11 × 102 is  (a) 34 (b) 35 (c) 36 (d) 37 |
| 3. | The number of prime factors in 6333 × 7222 × 8111  (a) 1221 (b) 1222 (c) 1111 (d) 1211 |

**QUESTIONS BASED ON SQUARE AND SQUARE ROOT**

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| **Q.No.** | **Question** |
| 1. | When (4 + ) is presented in the form of perfect square it will be equal to  (a)  (b)  (c)  (d) |
| 2. | The square root of  is  (a)  (b)  (c)  (d) |
| 3. | The square root of 14 + 6 is  (a)  (b)  (c)  (d) |

**QUESTIONS BASED ON POSITIVE AND NEGATIVE EXPONENT**

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| **Q.No.** | **Question** |
| 1. | Simplify :  (a) 52 (b) 54 (c) 58 (d) 512 |
| 2. | If 3x+8 = 272x+1, the value of x is:  (a) 7 (b) 3 (c) –2 (d) 1 |
| 3. | is equal to:  (a) 1 (b) 6 (c)  (d) |
| 4. | (4)0.5 × (0.5)4 is equal to:  (a) 1 (b) 4 (c)  (d) |
| 5. | If (2000)10 = 1.024 × 10k, then the value of k is  (a) 33 (b) 30 (c) 34 (d) 31 |
| 6. | If 3x + y = 81 and 81x – y = 3, then the value of x is  (a) 42 (b)  (c)  (d) 39 |
| 7. | If a = 7 – , the value of  is  (a)  (b) 4 (c) 7 (d) |

**QUESTION LIKE  AND **

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| --- | --- |
| **Q.No.** | **Question** |
| 1. | (a) equal 1 (b) lies between 0 and 1  (c) lies between 1 and 2 (d) is greater than 2 |
| 2. | is equal to  (a)  (b)  (c) 2 (d) 3 |
| 3. | is equal to  (a) 3 (b) 4 (c) 6 (d) 2 |
| 4. | is equal to  (a)  (b) 3 (c)  (d) |
| 5. | Find the value of  (a) 5 (b)  (c) 6 (d) 7 |
| 6. | The value of  is  (a) 2 (b) 22 (c) 23 (d) 25 |
| 7. | The value of  is  (a)  (b) 9 (c) 7 (d) 11 |

**MISCELLANEOUS QUESTIONS**

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| **Q.No.** | **Question** |
| 1. | By how much does  exceed ?  (a)  (b)  (c)  (d) |
| 2. | If  and y =  then (x + y) equals:  (a) 8 (b) 16 (c)  (d) |
| 3. | If , then the value of  is  (a)  (b)  (c)  (d) |
| 4. | By how much does  exceed ?  (a) 2 (b)  (c)  (d) 3 |
| 5. | If  then the value of  where n is a positive integer, is  (a) 0 (b) 2 (c) –2 (d) –5 |
| 6. | The number, which multiplied with  gives , is  (a)  (b)  (c)  (d) |