

(Olympiad Excellence Question)

QUESTIONS

1. In Roman numerals, there are only basic symbols.
(a) 7 (b) 8 (c) 9 (d) 10
2. Roman numeral for the smallest three-digit number is
(a) X (b) C (c) M (d) D
3. Which of the following numerals cannot be repeated?
(a) V (b) L (c) D (d) All of these
4. $VIII + XII + L = ?$
(a) 70 (b) 80 (c) 68 (d) 78
5. "I" can't be subtracted from
(a) L (b) C (c) M (d) All of these
6. Compare: $DLXXIX$ _ $CDLXI$
(a) < (b) $\leq$ (c) = (d) >
7. $XIV + LXI = ?$
(a) $CXXV$ (b) $VXXC$ (c) $LXXV$ (d) $VXXC$
8. $CCC - CXX = ?$
(a) $LLLXXX$ (b) $CLXXX$ (c) $LXXXCD$ (d) $CCXXC$
9. MMM stands for ____.
(a) 1500 (b) 3000 (c) 300 (d) 10000
10. XC is same as ____.
(a) $10 - 50$ (b) $10 + 100$ (c) $100 - 50$ (d) $100 - 10$
11. Which of the following statements is CORRECT?
(a) Symbol V, L, D cannot be repeated.
(b) Symbol I, X, C, M can be repeated only two times.
(c) Symbol I cannot be subtracted only from V and X.
(d) I cannot be added to V and X
12. Which of the following is NOT correctly matched?
(a) $LX = 60$ (b) $XL = 40$ (c) $WL = 40$ (d) $LXIII = 63$
13. Roman numeral for 258 is ____.
(a) $CVXLXV$ (b) $CDXIV$ (c) $CCLVIII$ (d) $CLVCXIII$
14. $XXVI$ _ 27
(a) < (b) $\leq$ (c) = (d) >
15. $DCXIV = \underline{\hspace{1cm}}$.
(a) 614 (b) 416 (c) 146 (d) 641

- 16.** Which of the following is not a correct Roman numeral?
 (a) *CXL* (b) *CCVI* (c) *XXI* (d) *VVXX*
- 17.** Roman numeral for the greatest two-digit number is ____.
 (a) *IC* (b) *CMXCIX* (c) *XCIX* (d) *CMIIIC*
- 18.** *CCC* stands for
 (a) 1000 (b) 300 (c) 3000 (d) 30
- 19.** 1000 written in roman numerals is
 (a) *CXXX* (b) *LXXX* (c) *DD* (d) *M*
- 20.** *MCLIX* is equals to
 (a) 1059 (b) 1159 (c) 1059 (d) 115110
- 21.** 78 when written in Roman number is
 (a) *CXL* (b) *LXXVIII* (c) *LVIII* (d) *CLX*
- 22.** Which of the following is correct statement?
 (a) *LLL* stands for 150 (b) *CCC* stands for 300
 (c) *DDD* stands for 1500 (d) *VVV* stands for 15
- 23.** Compare *XXXV* __ *XXXIX*
 (a) = (b) > (c) $\geq$ (d) <
- 24.** Which of the following is a correct roman numeral?
 (a) *LL* (b) *XX* (c) *VV* (d) *DD*
- 25.** *MCMXL* – *MCXL* equals to
 (a) 700 (b) 800 (c) 900 (d) 1000
- 26.** *CMD* __ 1200
 (a) = (b) < (c) > (d) $\leq$
- 27.** How many match sticks are needed to make the Roman numerals equivalent to 33?
 (a) 6 (b) 7 (c) 9 (d) 10
- 28.** Find the Roman numeral for 1418 .
 (a) *MCDXVIII* (b) *MDCVXIII* (c) *MVDCXIII* (d) *MCDVXIII*
- 29.** David made a mistake while writing Roman numeral for 745 . He wrote *DCCLV* . How will you correct the mistake?
 (a) *C* should be replaced by *M* (b) *L* should be replaced by *D*
 (c) *V* should be replaced by *L* (d) *L* and *V* should be interchanged
- 30.** *CD* represents a number. If Place of the symbols are interchanged, the number will increase by:
 (a) 100 (b) 500 (c) 50 (d) 200

ANSWER - KEY

1. A	2. B	3. D	4. A	5. D
6. D	7. C	8. B	9. B	10. D
11. D	12. C	13. C	14. A	15. A
16. D	17. C	18. B	19. D	20. B
21. B	22. B	23. D	24. B	25. B
26. C	27. C	28. A	29. D	30. D

Answers with Solutions

1. (a) I , V , X, L , C , D and M
2. (b) $C = 100$,
3. (d) V, L and D cannot be repeated
4. (a) $VIII = 8$, $XII = 12$, $L = 50$, $VIII + XII + L = 8 + 12 + 50 = 70$
5. (d) Not Available
6. (d) $DLXXIX = 500 + 50 + 10 + 10 + 9 = 579$
 $CDLXI - (500 - 100) + 50 + 10 + 1 = 461$
 $DLXXIX > CDLXI$
7. (c) $LXXV$,
 $XIV = 10 + (5 - 1) = 14$, $LXI = 50 + 10 + 1 = 61$
 $\therefore XIV + LXI = 14 + 61 = 75 = LXXV$
8. (b) $CLXXX$
 $CCC = 100 + 100 + 100 = 300$, $CXX = 100 + 10 + 10 = 120$
 $\therefore CCC - CXX = 300 - 120 = 180 = CLXXX$
9. (b) $MMM - 1000 + 1000 + 1000 = 3000$
10. (d) $XC = 100 - 10$
11. (a) Not Available
12. (c) Because V cannot be subtracted from L.
13. (c) $CCLVIII$
14. (a) $XXVI = 10 + 10 + 5 + 1 = 26$ $XXVI < 27$
15. (a) $DCXIV = 500 + 100 + 10 + (5 - 1) = 614$
16. (d) Because V cannot be repeated.
17. (c) Greatest two-digit number = 99,
 $XCIX = 100 - 10 + 10 - 1 = 99$
18. (b) $CCC = 100 + 100 + 100 = 300$
19. (d) $M = 1000$
20. (b) $MCLIX = 1000 + 100 + 50 + 9 = 1159$
21. (b) $LXXVII = 50 + 10 + 10 + 5 + 1 + 1 + 1 = 78$
22. (b) Not Available
23. (d) $XXXV = 35$, $XXXIX = 39$, $XXXV < XXXIX$
24. (b) Because V, L and D cannot be repeated.
25. (b) $MCMXL = 1000 + (1000 - 100) + (50 - 10) =$

$$1940, MCXL = 1000 + 100 + (50 - 10)$$

$$1940 - 1140 = 800$$

26. (c) $CMD = (1000 - 100) + 500 = 1400$, $CMD > 1200$

27. (c) $XXXIII = 2 + 2 + 2 + 1 + 1 + 1 = 9$

28. (a) $MCDXVIII = 1000 + (500 - 100) + 10 + 5 + 1 + 1 + 1 = 1418$

29. (d) Not Available

30. (d) $CD = 500 - 100 = 400$, $DC = 500 + 100 = 600$