(Olympiad Champs Question)

Roman Numerals

Multiple Choice Questions

CHALLENGE A

Directions (Qs. 1 to 8): Give the Arabic representation for the following numerals.

1. XI

(a) 12 (b) 11

(c) 10 (d) 9

2. IV

(a) 6 (b) 5

(c) 8 (d) 4

3. XXIII

(a) 23 (b) 28

(c) 19 (d) 14

4. XIV

(a) 18 (b) 14

(c) 15 (d) 21

5. L

(a) 50 (b) 46

(c) 8 (d) 100

6. XL

(a) 60 (b) 50

(c) 40 (d) 90

7. M

(a) 900 (b) 950

(c) 1000 (d) 800

8. XD

(a) 490 (b) 440

(c) 400 (d) 500

Directions (Qs. 9 to 11): Complete the series.

9. X. XI, XH. XIII._____.

(a) XX (b) XIV

(c) XIX (d) XVI

10. XX. XXV. _____, XXXV. XL

(a) L (b) XXX

(c) L (d) D

11. L. LX. LXX._____, XC

(a) LXXX (b) C

(c) b (d) M

Directions (Qs. 12 to 15): Choose the Roman representation for

12. 18

(a) VII (b) IX

(c) XX (d) XVIII

13. 1000

(a) L (b) C

(c) D (d) M

14. 85

(a) LXXXV (b) DXXV

(c) LXXV (d) DIXV

15. 60

(a) LXX (b) LX

(c) XL (d) XXX

16. Pick the odd one out.

(a) L (b) XIV

(c) XXXX (d) XVI

17. Pick the odd one out.

(a) XIX (b) XXI

(c) XXIV (d) XXV

CHALLENGE B

18. Match the following:

	List I		List II
A.	8	1.	16
B.	LX	2.	VIII
C.	XVI	3.	LXXX
D.	80	4.	60

	A	B	C	D
(a)	1	2	3	4
(b)	2	3	4	1
(c)	2	4	1	3
(d)	3	2	4	1

Directions (Qs. 19 and 20): Fill in the blanks:

19. _____ means 4 but VI means 20. ____

19. (a) XI (b) IV

(c) V (d) X

20. (a) 8 (b) 4

(c) 9 (d) 6

21. When there is bar over any roman numeral, the value of the number increase ___ times.

(a) 500 (b) 50

(c) 10 (d) 1000

22. X means ___.

(a) 1100 (b) 10000

(c) 13000 (d) 14000

Directions (Qs. 23 and 24): Find the missing digit.

23. XV- ___ = X

(a) V (b) L

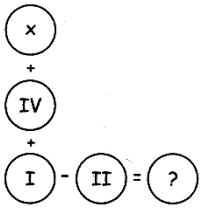
(c) VI (d) IX

24. X + XXX = ___

(a) IV (b) L

(c) XL (d) M

25. What will be the outcome for the given diagram?



(a) XIX (b) XII

(c) XIII (d) XV

26. 26. DXLV means ___.

(a) 500 (b) 540

(c) 545 (d) 600

27. Statement A: C = 40.

Statement B: M > 100.

(a) Statement A is true.

(b) Statement B is false.

(c) Both statements are true.

(d) Only statement B is true.

28. L = 50, C = 80, D = 100, M = 90

(a) TFFT (b) FFTT

(c) TFFF (d) FFFF

29. Human beings have ___ teeth.

(a) L (b) XXXII

(c) XL (d) C

30. L + XX * X + VI = ___.

(a) LXXXC (b) CX

(c) LXXXVI (d) LVI

31. Roman numerals have been adapted from_____.

(a) British (b) Mughal

(c) Etruscan (d) none of these

32. If a letter is placed before the Roman umeral of greater value, then it is_____.

(a) subtracted from it (b) added to it

(c) multiplied to it (d) divided by it

33. Statement A: In Roman numerals a letter an be used more than three times continuously.

Statement B: A bar or a line on roman umber increases its value by 1000 times.

(a) Both are true. (b) Both are false,

(c) Only A is true. (d) Only B is true.

Directions (Qs. 34 to 37): Choose the correct option.

34. X + XX =_____.

(a) XVIII (b) LXV

(c) XXX (d) LXX

35. XX + L =_____.

(a) XVIII (b) LXV

(c) XXX (d) LXX

36. L + X + V = _____

(a) XVIII (b) LXV

(c) XXX (d) LXX

37. XIII + V = _____.

(a) XVIII (b) LXV

(c) XXX (d) LXX

38. I had 8 paper sheets and my brother had 10 paper sheets. So together we both have _____ sheets.

(a) XVIII (b) XVI

(c) IX (d) XIX

39. I went to market with Rs C. I bought fruits for Rs IX, a pencil of Rs V and some grocery of Rs 50. I am left with:

(a) VI (b) L

(c) LX (d) XXXVI

40. I have C candies and went to divide them between L children. How many candies will each child get?

(a) III (b) II

(c) X (d) V

41. There are 50 students in a class and Rohan wants to give 2 pencils to each student. How many should he buy?

(a) L (b) C

(c) D (d) M

42. Which of the following is the greatest?

(a) L (b) LX

(c) C (d) XXX

43. Put the sign between these:

XL_____XXX

(a) > (b) <

(c) = (d) >.

44. The year 2015 will be written as:

(a) MMXV (b) MMMV

(c) MMIX (d) MMXX

45. A movie was released in MCMLV. Choose the numeral number for this roman number.

(a) 1948 (b) 1965

(c) 1955 (d) 1960

46. Reema's father is 69 years old. 69 can be written as

(a) LXIX (b) C

(c) XC (d) LV

47. Romans did not have a symbol for:

(a) 0 (b) 10

(c) 100 (d) 1000

48. Repetition of a Roman numeral means

(a) multiplication (b) addition

(c) squaring (d) twice the number

49. Roman numerals can be repeated _____.

(a) once

(b) twice

(c) thrice

(d) n number of times

50. When the smaller symbol is placed on left of the bigger symbol then we

(a) add (b) subtract

(c) multiply (d) divide

51. Roman numerals which cannot be repeated are

(a) I.X (b) C.M

(c) V.L (d) none

52. Roman numerals which are used for both addition and subtraction are

(a) I,V,X (b) V.X.L

(c) L.C.D (d) I,X.C

53. The Indo-Arabic numeral for LXXV is

(a) 750 (b) 75

(c) 125 (d) 525

54. The Indo Arabic numeral for CMLXXXII is

(a) 482 (b) 532

(c) 982 (d) 1532

55. The Indo-Arabic numeral for MC&XIV is

(a) 1014 (b) 1404

(d) 1400 (d) 1414

56. The Roman numeral for 3390 is

(a) MMMCCCXC (b) MMXCCD

(c) MMMXCD (d) MMMCCXCD

57. The Roman numeral for 1296 is

(a) MCCXCVI (b) MCCLXXXXVI

(c) MCCCbXCVI (d) &&CCXCVI

58. Which is a meaningless Roman numeral?

(a) XXXIX (b) LXXXIX

(c) XXIX (d) XXXXIX

59. Which is a meaningful Roman numeral?

(a) VL (b) IVC

(c) XC (d) LIL

60. CCM + ____ + IV = 884

(a) LXXL

(b) LXXX

(c) XXC

(d) LXXVV

61. M + CCC +_____=1344

(a) XXXXIV (b) XLIV

(c) XLIVX (d) XLHII

62. Which of the following is true or false?

(a) XX VIII > 20+8

(b) 30+4= XXX VI

(c) XXVI =20+6

(d) 30+8< XXXIX

(a) TFFT (b) FFTT

(c) TFFF (d) TTTT

63. Which of the following is meaningless?

(a) XIII (b) XIX

(c) XVV (d) XL

64. The equivalent of 2134 in Roman numerals is

(a) MMLXXIV

(b) MMCXXXIV

(c) LMMXXXIV

(d) DDDLXXIV

65. In the roman numeral system, whenever a smaller number precedes a larger number, this means one should.

(a) Subtract; the smaller number from the larger one.

(b) Add the smaller number to the larger one.

(c) Subtract the larger number from the smaller one.

(d) Divide the large number by the smaller one.

66. Statement A: Roman numerals can be added together to represent different if numbers.
Statement B; The successor of XVIII is XIX.
Which of the statement is true?
(a) Only A (b) Only B
(c) Both (d) None of these?

67. Statement A: In Roman numerals system, the symbol VC represents the number a 95.
V
Statement B: The ascending order of umbers X, V, VIII, IX is X, IX, V, VIII.
(a) Only B is true (b) Only A is true
(c) Both are true (d) none of these

68. Number 15 can be written as :
(a) VVV (b) VIV
(c) XIV (d) XV

69. How will the number 24 be written in Roman numeral system?
(a) XXIIII (b) IVXX
(c) XXVI (d) XXIV

70. Statement A: In Roman numerals, the digits do not have any place value.
Statement B: In MCMXVII year India became independent. Which of the statement, is correct?
(a) Only A is false (b) Only B is false
(c) Both are false (d) none of these

Solutions with Explanation

CHALLENGE A

1. (b) XI = 10 + 1 = 11
2. (d) IV = 5 – 1 = 4
3. (a) XXIII = 10 * 10 + 1 +1 + 1 = 23
4. (b)
5. (0)
6. (c)
7. (c)
8. (a) XD = 500 - 10 = 490
9. (b) There is difference of one.
10. (b) There is difference of five.
11. (a) There is difference of ten.
12. (d)
13. (d)
14. (.)
15. M
16. (c) It cannot be the representation of any number.
17. (c) The series is with the difference of 2, so It will be 19. 21. 23 and 25.

CHALLENGE B

18. (c)
19. (b)
20. (d)
21. (d)
22. (b)
23. (a) [15 – 5 = 10]
24. (c) [10 + 30 = 40]
25. (c) [10 + 4 + 1 = 15 - 2 = 13]

26. (c) [D = 500, XL = 40. V = 5 so 500 + 40 + 5 = 545]

27. (d) C = 100 and M = 1000 > 100

28. (c) L = 50, C = 100. 0 = 500, M = 1000

29. (b) We have 32 teeth.

30. (c) [50 + 20 + 10 + 6 = 86]

31. (c)

32. (a)

33. (d)

34. (c) 10 + 20 = 30

35. (d) 20 + 50 = 70

36. (b) 50 + 10 + 5 = 65

37. (a) 13 + 5 = 18

38. (a) [10 + 8 = 18]

39. (d) [100 -(9 +5 + 50) =100 - 64 =36]

40. (b) [C=100,L=50,100/50=2]

41. (b) [50 x 2=100=C pencils are required]

42. (c) [L = 50, LX = 60, C = 100, XXX = 30]

43. (a) [40 is greater than 30]

44. (a) [M = 1000, X = 10, V = 5 -. 1000 + 1000+10 + 5 = 2015]

45. [1000 + 900 + 50 + 5 = 1955]

46. (a)

47. (a) In Roman system, there is no symbol for zero. Thus, they did not use place value system.

48. (b) Repetition of Roman numerals means addition but numerals like V, L and D cannot be repeated.

49. (c) Roman numerals can be repeated thrice.

50. (b) When the smaller symbol is placed on left of the bigger symbol than we subtract but V, L and D are never subtracted.

51. (c) V, L and D cannot be repeated.

52. (d) Roman numerals I, X, C are used for both addition and subtraction.

53. (b) (L = 50) + (XX = 20) + (V=5)

$\Rightarrow$ 50+20+5=75

54. (c) (CM = 900) + (LXXX = 80) + (II =2)

$\Rightarrow$ 900 + 80 + 2

CMLXXXII = 982

55. (d) MCDXIV

(M = 1000) + (CD = 400) + (XIV = 14)

$\Rightarrow$ 1000 + 400 + 14

$\Rightarrow$ 1414 = MCDXIV

56. (a) 3390

$\Rightarrow$ 3000 + 300 + 90

(3000 = MMM) + (300 = CCC) + (XC = 90)

MMMCCCXC

57. (a) 1296

1000 + 200 + 90 + 6

(1000 = M) + (CC = 200) (XC = 90) + (VI = 6)

MCCXCVI

58. (d) XXXXIX is meaningless as no number can be repeated more than 3 times.

59. (c) XC is a meaningful Roman numeral V, L, D are never subtracted thus option a, b, d are meaningless.

60. (b) CCM = 800

80= LXXX

IV =4

CCM + LXXX + IV

800+80+4=884

61. (b) (M = 1000) + (CCC = 300) + 44 = 1344

$\Rightarrow$ 44 = XLIV

62. (b)

63. (c)

64. (b)

65. (a)

66. (c)

67. (b)

68. (d)

69. (d)

70. (a)