CHAPTER -2
ROMAN NUMERALS

➢ <u>POINTS TO BE NOTED</u>:(NOTEBOOK)

- The basic symbols used by Roman to write their numerals were seven English letters.

Symbol	I	V	X	L	C	D	M
Value(Hindu Arabic number)	1	5	10	50	100	500	1000

- Rules for Reading and writing Roman Numerals:(Notebook)
  1. Repetition of a Roman numeral means addition. Examples: II means 2, III means 3, XXX means 30.
  2. A smaller numeral written to the right of bigger numeral is always added to the bigger numeral. Examples: VI = 5+1 = 6 , XXI = 10+10+1 = 21
  3. A smaller numeral written to the left of bigger numeral is always subtracted from the bigger numeral.
     Examples: IX = 10 – 1 = 9 , IV = 5 – 1 = 4.
  4. When a smaller numeral is placed between two bigger numerals , it is always subtracted from the bigger numeral immediately following it. Examples: XIV = 10 + (5 – 1) = 10 + 4 = 14

$$XIX = 10 + (10 - 1) = 10 + 9 = 19.$$

- <u>POINTS TO BE REMEMBERED:(Notebook)</u>

I. Only the symbols (or numerals) I , X , C and M can be repeated.
II. The numeral V , L , D cannot be repeated.
III. No symbol (or numeral) can be repeated more than three times.
IV. V is never subtracted.
V. I can be subtracted from V and X.
VI. I , V and X are thre basic numerals.

EXERCISE – 2.1

Q.1: Fill in the blank spaces to show the meaning of each of these numerals:(TEXTBOOK)

a) IV = 5 – 1 = <u>4</u>
b) IX = <u>10</u> – 1 = <u>9</u>
c) XIV = 10 + (<u>05</u> + 1) = 14
d) XXIX = 10 + 10 + (<u>10</u> - 1) = <u>29</u>
e) XIX = 10 + (<u>10</u> – 1) = <u>19</u>
f) XXIV = 10 + 10 + (<u>5</u> – <u>1</u>) = <u>24</u>
g) XXXIV = 10 + 10 + 10 + (<u>5</u> – <u>1</u>) = <u>34</u>
h) XXXIX = 10 + 10 + 10 + (<u>10</u> – <u>1</u>) = <u>39</u>

Q.2: Write Roman numerals for the following :(TEXTBOOK)

a) 18 = XVIII
b) 27 = XXVII
c) 3 = III
d) 6 = VI

e) 8 =VIII

f) 21 =XXI

g) 29 =XXIX

h) 38 =XXXVIII

i) 39 =XXXIX

j) 26 =XXVI

k) 14 =XIV

l) 37 =XXXVII

m)   35 = XXXV

n) 22 = XXII

o) 19 = XIX

Q.3: Write a Hindu Arabic numeral for each
Roman numeral:(TEXTBOOK)

a) IV = 4

b) III = 3

c) VIII = 8

d) X = 10

e) I = 1

f) IX = 9

g) VII = 7

h) XVI = 16

i) XIII = 13

j) XX = 20

k) XXI = 21

l) XXIV = 24

m)   XXXIV = 34
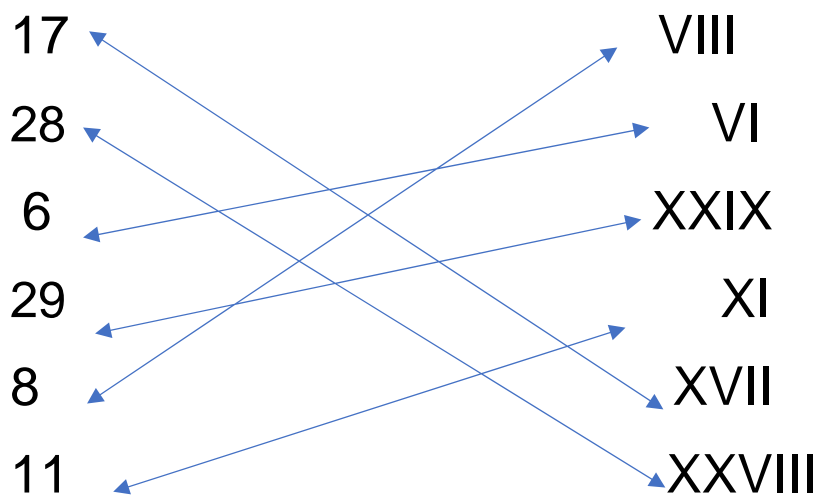n) XXXIX = 39
o)XXXIII = 33

Q.4: Match the numerals of two columns which represent the same number:(TEXTBOOK)

Column A	Column B
17	VIII
28	VI
6	XXIX
29	XI
8	XVII
11	XXVIII

Q.5: Which of the following are meaningless? Tick them.(TEXTBOOK)

a. VX = ✓
b. XVII
c. VVV = ✓
d. XIX
e. IIV = ✓
f. VIV = ✓
g. XXVII
h. XIXX = ✓
i. XXX

j. IXIV =

Q.6: Ring the correct matching:(TEXTBOOK)

a. XXX → 30 ◯
b. XXXIX → 31
c. VII → 3
d. XI → 9
e. XXII → 22 ◯
f. IV → 4 ◯
g. XVI → 14
h. XXIV → 24 ◯
i. XXIX → 19

Q.7: Write Roman numerals from 1 to 39.(NOTEBOOK)

I	XI	XXI	XXXI
II	XII	XXII	XXXII
III	XIII	XXIII	XXXIII
IV	XIV	XXIV	XXXIV
V	XV	XXV	XXXV
VI	XVI	XXVI	XXXVI
VII	XVII	XXVII	XXXVII
VIII	XVIII	XXVIII	XXXVIII
IX	XIX	XXIX	XXXIX
X	XX	XXX	

Q.8: Write > or < in the blanks:(TEXTBOOK)

a. XVI $\geq$ V
b. XXXIX $\geq$ XXIX
c. VIII $\leq$ XV
d. IX $\leq$ XII
e. XXIII $\leq$ XXIX
f. IV $\leq$ VIII