CLASS:- VII
Subject: Maths
General Instructions:

 i)   *The Revision Sheet consists of four sections – A, B, C and D.*
 ii)   *All questions are compulsory.*
 iii)   *Section A contains 20 questions carrying 1 mark each.*
 iv)   *Section B contains 6 questions carrying 2 marks each.*
 v)   *Section C contains 8 questions carrying 3 marks each.*
 vi)   *Section D contains 6 questions carrying 4 marks each.*
 vii)   *Internal choice is given in few questions. Attempt any one out of the given choices.*

Section – A

Q.1.   The median of 2,1,4,5,2,3 and 4 is
       a) 3   b) 2
       c) 1   d) None of these.

Q.2.   When two angles are congruent, we mean.
       a) They are supplementary
       b) They intersect each other
       c) They are equal in measure
       d) None of these

Q.3.   The ratio of 300gm to 3kg is
       a) 10:1   b) 100:1
       c) 1:10   d) None of these

Q.4.   Every fraction is a
       a) a natural no   b) a whole no
       c) an integer   d) None of these

Q.5.   The smallest rational no is
       a) 0   b) 1
       c) 10   d) not determinable

Q.6.   The smallest unit of length is
       a) cm   b) dam
       c) hm   d) mm

Q.7.   On subtracting x+y from -3 x + 8y result will be
       a) $-4_x + 7_y$ b) $4_x – 7_y$
       c) $7_x + 4_y$ d) none of these

Q.8.   The value of $(xz^0) \times z^0$ is
       a) x   b) y
       c) z   d) o

Q.9.   A cylinder has
       a) One vertex   b) no vertex
       c) two vertex   d) none of these

Q.10. The measure of other two angles in a right tringle can be.
       a) 75^0 , 15^0 b) 60^0 , 30^0
       c) 45^0, 45^0 d) All of these

Q.11. The simplest form of the ratio 32:96 is _____

Q.12. Additive inverse of 0 is _____

Q.13. _____ + (3x – y) = (7x – 6y)

Q.14. $(-6)^3$ is same as _____ .

Q.15. A triangular Pyramid has _____ triangular faces.

Q.16. Write next three equivalent rational members of $\dfrac{-7}{13}$

Q.17. Find the area of a circle whose diameter is 42 cm

Or

Find the circumference of a circle whose radius is 35 cm.

Q.18. Find the base of IIgm whose area is 76.8sq . cm and height is 9.6 cm

Q.19. Write the numerical coefficient of each term of the following expression.
$9a^2\text{-}b^2\text{-}10b^2c^2 – 11\ c^2\ a^2$

Q.20. Evaluate $\dfrac{4^2}{3} + \left(\dfrac{4}{3}\right)^2$

Section – B

Q.21. Marks obtained (out of 20) by 10 students are 15, 13, 18, 15, 19, 16, 17, 20,20,18.
Using tally marks, make a frequency distribution table for the above data

Q.22. What percent of 2litre is 125 ml.

Q.23. Represent $\dfrac{7}{3}$ on the number line.

Q.24. Arrange in descending order $\dfrac{2}{5}, \dfrac{11}{30}, \dfrac{71}{15}, \dfrac{31}{20}$

Or

Arrange in ascending order $\dfrac{-3}{7}, \dfrac{5}{-4}, \dfrac{11}{-14}$

Q.25. Write the algebraic expressions in the following using variables, constant and mathematical operations:
a) 2 less than the quotient of x and y.
b) Number 5 added to three times the product of numbers m and n.

Q.26. Write the following number in standard form:
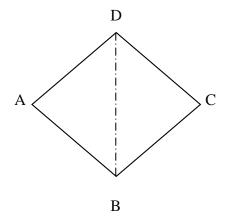a) 4,19,25,00,000   b) 5682026

Section – C

Q.27. Find the mean and Range of first six even number

Or

Find the mean and Range of the first six natural number

Q.28. A basket of 125 apples has 20% rotten apples. How many apples are good to be sold?

Q.29. In an isosceles $\triangle ABC$, AB =AC and $AP \perp BC$ show that $\triangle\ ABP = \triangle\ ACP$ and P bisects BC.

Q.30. In the given fig AD = CD and AB = CB
(i) State three pairs of equal parts in $\triangle\ ABD$ and $\triangle\ CBD$
(ii) Is $\triangle\ ABD = \triangle\ CBD$? Why or why not?
(iii) Does BD bisect $\angle ABC$? Given reasons.

D

A   C

B

Q.31. Draw a line parallel to a given line xy at a distance of 4cm from it.

Q.32. The diameter of a wheel of car is 63cm. Find the distance travelled by the car during the period in which the wheel makes 1000 revolutions.

Q.33. What should be added to $11 x^2y^2 - 10 xy +14$ to get $6x^2y^2+13$?

Q.34. Express each of the following a product of powers of their prime factor.
   a) 18000   b) 850.

Section – D

Q.35. The performance of a student in two class test is given. Draw a double bar graph and a answer the following question

Subject	English	Hindi	Maths	Science	S.St
Test – I	12	10	16	18	8
II	16	12	12	14	16

(I) In which subject student improved his performance most?

(ii) In which subject (s) has the performance gone down?

Q.36. A money lender lends Rs. 14000 for 3 years to get an interest of Rs. 2310. At what rate percent per annum did he charge the interest?

Q.37. Construct $\triangle$ PQR if PQ = 5cm, $m\angle$ PQR = 105^0 and $m\angle$ QRP = 40^0.

Q.38. A wire encloses a triangle whose sides are 34,28 and 26 cm .This wire is used to form a circle. How much area will the circle have?

Q.39. Two cross roads each of width 5m run at right angles through the center of the rectangular park 80m length and breadth 50m and parallel to its sides. Find the area of rods and area of Park excluding roads.

Q.40. From the sum of 4a+b+c and 9a-c, subtract the sum of 18a-b-c and 14a-2b-c.