DELHI PUBLIC SCHOOL, JAMMU
MODEL REVISION PAPER
SESSION 2018-19

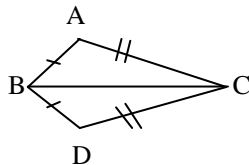**CLASS: VII**   **SUBJECT: MATHS**

SECTION-A

Q1. What percent of ₹ 600 is ₹ 552.

Q2. Find the circumference of a circular disc whose radius is 14cm.

Q3. A dice is thrown once. Find the probability of getting multiples of 3.

Q4. A coin is tossed once. Find the probability of getting tail.

Q5. Find the ratio of 200g to 1kg.

Q6. Check whether the construction of a triangle is possible with angles as 45°, 90°,100°.

Q7."Thrice of a number when decreased by 7 gives 8". Write the statement in equation form.

Q8. The side of the square is 3.5cm. Find its area.

Q9. Identify the like terms in: x^2yz , yxz^2, zx^2y , xy^2z , $6xy^2$.

Q10. Identify terms which contain y^2 and give the coefficient of y^2 in $2x^2y$ - $15xy^2$ +$7y^2$.
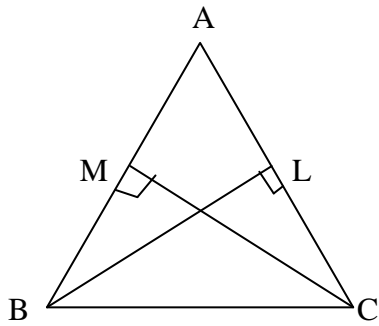
SECTION–B

Q11. Find the value of p such that 15 : 50 : : p : 170.

Q12. A washing machine is purchased for ₹ 35000 and sold for ₹ 37500. Find gain or loss percent.

Q13. In the given figure, AB = BD and CA = DC. Is ΔBAC ≅ ΔBDC? If yes, write the congruence
rule.

Q14. Solve to find the value if x using trial and error method.

   a) $3(x + 2) = 15$

   b) $2x + 3 = 13$

Q15. Draw an isosceles ΔPQR with PQ = 4.5cm, PR = QR = 6cm.

Q16. In an English test, the following marks were obtained by 20 students:

     6, 5, 7, 8, 5, 6, 6, 7, 8, 9, 5, 4, 3, 5, 6, 6, 7, 4, 5, 3

  Find the mean and the mode of above data.

Q17. Construct a line parallel to a given line PQ passing through a point C outside it.

Q18. Subtract $5m^2 - 7mn + 5n^2$ from $3mn - 2m^2 + 2n^2$.

Q19. Make tree diagram to show the terms and its factors for the expression

   a) $-3a^2b + 5ab^2$

   b) $pq + 2p^2q^2$

Q20. Find the base of the triangle , if the area of the triangle is $36cm^2$ and the corresponding height
of the triangle is 3cm.

SECTION C

Q21 By how much does $5ab-2a^2+3ab^2$ exceed $-7a^2+9ab-6ab^2$.

Q22 Find the mean , median , mode of the following data:

    23, 55, 75, 35, 54, 62, 69, 38, 83 and 62

Q23 Solve for x: $3(7x - 1) + 5 = 4x + 11$

Q24 The sum of three consecutive integers is 96 . Find the integers.

Q25 The price of a shirt decrease from Rs 2200 to Rs 1750. Find the percentage decrease.

Q26 I purchased a T.V for Rs 12000 and sold it at a profit of 20% . How much money did I get for it?

Q27 In triangle ABC , <B = < C, BL and CM bisects <B and <C respectively. Prove that BL = CM.

Q28 Two crossroads, each of width 5m, run at right angles through the centre of a rectangular park of length 80m and breadth 50m, and parallel to its sides. Find the area of the roads.

Q29 At what rate percent per annum Rs 2500 bring Rs.375 as interest for 3 years?

Q30 Draw a triangle PQR in which <P=75°, PQ=PR=4.5cm. Measure the other two angles.

SECTION D

Q31 The performance of a student in tests, out of 100, is given. Draw a double bar graph choosing an appropriate scale.

SUBJECT	English	hindi	Maths	S.Sc	Science
I TEST	68	87	72	75	84
II TEST	79	85	95	91	89

Q32 Construct a right angled triangle XYZ, right angled at Z, with sides XY=4.6cm and XZ=3.2cm.

Q33 A circular flower bed is surrounded by a path 5 m wide. The diameter of flowerbed is 65m. What is the area of the path?

Q34 How many times a wheel of radius 35cm must rotate to go 286m?

Q35 A path 1m wide is built along the border inside a square garden of side 30m. Find

   i)   area of the path
   ii)   cost of planting grass in remaining portion of garden at the rate of Rs 35 per sq. M.

Q36 Harish borrowed Rs.15000 from Subhash at 16% per annum for $3\frac{1}{2}$ years. Find the interest and the amount paid by him.

Q37 The age of father is 40 years more than his son. After 5 years, father's age will be thrice his son's age. Find their present ages.

Q38 The perimeter of a rectangle is 70cm. If its length exceeds its breadth by 5 cm, find the dimensions of the rectangle.

Q39 From the sum of $7x + 6y + z$ and $-9x + 3y - 2z$, subtract the sum of $2x - 6y - 5z$ and $3y + 8z$