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CBSE Class 9 Maths
SAMPLE
QUESTION PAPER - 1

Solved

Time : 3 Hours Maximum Marks : 90

SECTION 'A'

Question numbers 1 to 4 carry one mark. For each question, four alternative choices have been provided of which only one is correct. You have to select the correct choice.

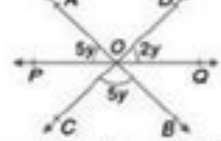
1. The simplest form of $\frac{\sqrt{98}}{\sqrt{2}}$ is :
 (A) $\sqrt{2}$ (B) $\sqrt{98}$ (C) 7 (D) $\sqrt{7}$
2. If $x + 4$ is a factor of the polynomial $x^2 + 3x + m$, the value of m is :
 (A) 4 (B) -4 (C) 3 (D) -3
3. If $x + y + 2 = 0$, then $x^2 + y^2 + 8$ equals :
 (A) $(x + y + 2)^2$ (B) zero (C) $6xy$ (D) $-6xy$
4. \sqrt{x} is a polynomial of degree :
 (A) 2 (B) 0 (C) 1 (D) $\frac{1}{2}$

SECTION 'B'

Question numbers 5 to 10 carry two marks each.

5. If $x = 3 - 2\sqrt{2}$, find the value of $\sqrt{x} + \frac{1}{\sqrt{x}}$.
6. Factorise : $x^4 - y^4$
7. For what value of k , is the polynomial $p(x) = 2x^2 - kx^2 + 3x - 10$ exactly divisible by $(x + 2)$?
8. Prove that every line segment has one and only one mid point.
9. Two supplementary angles are in the ratio 2 : 3, find the angles.

OR
 If $\angle AOP = 5y$, $\angle QOD = 2y$ and $\angle BOC = 5y$ in the given figure, find the value of y .



10. The perimeter of a Δ is 120 cm and its sides are in the ratio 5 : 12 : 13. Find the area of the triangle.

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poor man, with tattered clothes, having good manners is sure to attract everyone's attention and win everybody's liking. Manners are observed in every walk o life. At home we should respect our elders and love youngers. We should co-operate each other in the society. We should maintain discipline in the class and treat all as equals.

Good Manners are important for success at workplace. The Boss wants subordinates to have good etiquette and use the words like 'please' and thank you.

It has been rightly said that 'manners make a man'. Good manners differs from country to country. But one thing is common that well mannered people are liked by people.

Q.4 STORY WRITING

10 Marks

Title and Moral	-	1 mark
Content	-	4 mark
Expression	-	5 mark

The Return Gift

Mr. Vijay was a very wealthy business man. One day he was sitting alone at his dining table. Suddenly he heard someone's footsteps coming to him. He knew there was a thief there. He asked him to come in. He also thanked him for coming to his house on his birthday. He served the thief food and drinks. The thief was starving and impressed with his hospitality. Mr. Vijay gave him a bag containing silver and gold coins. Years rolled by, his fortune changed. Vijay was a very poor man now. His business was ruined.

It was his 60th birthday. He was alone reflecting over his good old days. Suddenly the bell rang. He went to the door to open the gate. A person in new suit with a lovely bouquet of red roses appeared. But he could not recognise at first sight. He asked, "I am your old thief." With the money you gave me I did some business. Now I am rich business man. Let's celebrate your birthday, he said. He gave a bag to Mr .Vijay. It was full of new currency .

Moral : A good behaviour and kindness brings one to the new life.

- Q.5. (a) (iii) surprised **(1 * 4= 4 marks)**
 (b) (i) of
 (c) (i) a
 (d) (iv) who
- Q.6. (a) undertaking — undertaken
 (b) a — the
 (c) for — of
 (d) that — and **(1 * 4= 4 marks)**

PRACTICE QUESTION PAPER-2
CLASS-IX
SUBJECT : MATHEMATICS

Time : 3 Hrs. M.M. 80

- General Instruction:**
1. All questions are compulsory.
 2. The paper consists of 30 questions divided into four section A, B, C, D. Section A comprises of 6 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 10 questions of 3 marks each. Section D comprises of 8 questions of 4 marks each.
 3. There is no over all choice in this question paper. Although internal choices has been provided in some questions.

SECTION-A

1. Write the Heron's formula used to calculate the area of a triangle whose sides are a, b, and c.
2. Find the ratio of the volumes of a cone and of a cylinder whose base diameter and heights are equal.
3. Find two irrational numbers between 786 and 787.
4. Is P (0, 7) and Q (7, 0) represent the same point?
5. How many solutions are there for equation $y = x + 2$?
6. Find x and y from the given figure.

