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## MATHS

# BOOKS - HT Olympiad Previous Year <br> Paper 

## CLASS 9 SAMPLE PAPER FINAL 4

Mathematics

1. The value of $k$, if $(x-1)$ is factor of
$2 x^{3}+x^{2}-4 x+k$, is -
A. -1
B. 3
C. 1
D. 2

Answer: C

## D Watch Video Solution

2. In figure $A, B$ and $C$ are three points on a circle with centre 0 such that $\angle \angle B O C=30^{\circ}$ and $\angle \angle \mathrm{AOB}=60^{\circ}$. If D is a point on the circle
other than the arc $A B C$, find $\angle A D C$

A. $40^{\circ}$
B. $100^{\circ}$
C. $45^{\circ}$
D. $60^{\circ}$

## Answer: C

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3. Eleven bags of wheat flour, each marked 5 kg , actually contained the following weights of flour (in kg) :
4.975 .055 .085 .035 .005 .065 .084 .985 .045 .07
5.00

Find the probability that any of these bags
chosen at random contains more than 5 kg of flour.
A. $7 / 11$
B. $4 / 11$
C. $10 / 11$
D. $5 / 11$

Answer: A

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4. If 2 cubes are connected on their bases, the

Total Surface Area(TSA) of the new object formed is -
A. Less than the sum of TSA of two cubes
B. More than the sum of TSA of two cubes
C. Equal to the sum of TSA of two cubes
D. None of these

Answer: A

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5. The remainder when $a^{3}+2 a^{2}-3 a+2$ is divided by a-1 is -
A. 2
B. -2
C. 1
D. 0

Answer: A

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6. Which point satisfies the equation
$3 x-4 y=7 ?$
A. $(-5,2)$
B. $(5,2)$
C. $(3,-4)$
D. $(7,2)$

Answer: B

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7. The sum of the probabilities of all possible outcomes of an event is
A. less than 1
B. greater than 1
C. 1
D. can't say anything

## Answer: C

## D Watch Video Solution

8. Write the coefficients of $x^{3}$ :
$\frac{4}{7} x^{3}+x^{2}-5$

> A. $\frac{4}{7}$
> B. -5
> C. -4
> D. 1

Answer: A

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# 9. In the given figure, find the value of $y$ - 


A. $70^{\circ}$
B. $100^{\circ}$
C. $30^{\circ}$
D. $50^{\circ}$

Answer: A

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10. The longest chord of a circle divides the circle in
A. Two parts
B. Two equal parts
C. Two sectors

## D. None of these

## Answer: B

## D Watch Video Solution

