## MOCK TEST PAPER

## DOON SCHOOL - MATHEMATICS

TIME ALLOWED: 1 HOUR
MAX MARKS 100

## GENERAL INSTRUCTIONS

1. All questions are compulsory.
2. This paper consists of 24 questions divided into three SECTIONS A, B AND C .
3. SECTION A contains 10 questions of 1 mark each, SECTION B contains 10 questions of 5 marks each and SECT C contains 4 questions of 10 marks each.
4. Use of a calculator is not permitted.
5. Please use geometry scales and a compass for construction.

| TOPIC | MAX MARKS | MARKS OBTAINED |
| :--- | :--- | :--- |
| SECTION A . MULTIPLE CHOICE QUESTIONS |  |  |
|  | $\underline{6}$ |  |
| SECTION B . ALGEBRAIC EXPRESSION | $\underline{2}$ |  |
| B. 1 SIMPLIFICATION OF ALGEBRA | $\underline{2}$ |  |
| B.2 FORMULA MAKING | $\underline{6}$ |  |
|  | $\underline{11}$ |  |
| SECTION C . LINEAR EQUATION | $\underline{5}$ |  |
| C. 1 SIMPLICATION BY SUBSTITUTION | $\underline{5}$ |  |
| C. 2 STETEMENTS QUESTION | $\underline{5}$ |  |

## SECTION A : MULTIPLE CHOICE QUESTIONS (1 MARKS EACH)

Q1 : Identify the coefficient of x in expression $8-\mathrm{x}+\mathrm{y}$
(a) 0
(b) 8
(c) -1
(d) 1

Q2 : The number of terms in $4 p 2 q-3 p q 2+5$ is
(a) 7
(b) 3
(c) 1
(d) 4

Q3 : The expression for sum of numbers $a$ and $b$ subtracted from their product is
(a) $a+b-a b$
(b) $a b-a+b$
(c) $a b-(a+b)$
(d) $a b+a-b$.

Q4: The number of terms in the expression $1.2 a b-2.4 b+3.6 a$ is
(a)1.2
(b) -2.4
(c) 3.6 a
(d) 3

Q5 : The expression $x+y-x y$ is
(a) Monomial
(b) Binomial
(c) Trinomial
(d) Quadrinomial

Q6 : The expression xyz is
(a) Monomial
(b) Binomial
(c) Trinomial
(d) Zero polynomial

Q7: Subtract a -b from a+b the result is
(a) $2 a+2 b$
(b) 2 a
(c) 2 b
(d) $2 a-2 b$

Q8 : Subtracting -5y2 from y 2 ,the result is
(a) $-4 y^{2}$
(b) $6 y 2$
(c) 4 y 2
(d) $-6 y 2$

Q9: The value of expression $5 n-2$, when $n=-2$ is
(a) -12
(b) 8
(c) 1
(d) -8

Q10 : Factors of the term $15 x^{2}$ in the expression $15 x^{2}-13 x$ are
(a) $15, x, x$
(b) 15, - 13
(c) $15 x^{2},-13 x$
(d) 15

## SECTION B : SHORT ANSWER TYPE QUESTION (5 MARKS EACH)

QUE 11 : : Solve : $\left(34 m^{3} n^{2}-51 m^{2} n^{3}\right) \div 17 m n$

QUE 12 : Add : $\mathrm{p}^{2} q \mathrm{r}+\mathrm{pq}^{2} \mathrm{r}+\mathrm{pqr}^{2}$ and $-3 p q^{2} r-2 p q r^{2}$

QUE 13 : Solve : $12 x^{2} y \div 4 x+(6 x-x)^{2}$.

QUE 14 : Simplify : -[7( $a-2 b)-4 b]$.

QUE 15 : Find the value if $x=2$
(i) $4(2 x-1)+3 x+11$

QUE 16 : Find the value of the following expressions at $a=1$ and $b=-2$ :
(i) $a^{3}+a^{2} b+a b^{2}+b^{3}$

QUE 17 : What should be subtracted from $2 x^{3}-3 x^{2} y+2 x y^{2}+3 y^{3}$ to get $x^{3}-2 x^{2} y+3 x y^{2}+4 y^{3} ?$

QUE 18 : Make formula : A number is 7 more than one-third of itself.

QUE 19 : Make formula: Seven times a number is 12 less than thirteen times the same number.

QUE 20 : Make formula : The sum of twice a number and 4 is 18 less than thrice that number.

QUE 21 : The age of Sohan Lal is four times that of his son Amit. If the difference of their ages is 27 years, find the age of Amit.

QUE 22 : The interest received by Karim is 30 more than that of Ramesh. If the total interest received by them is 70, find the interest received by Ramesh.

QUE 23 : Subramaniam and Naidu donate some money in a Relief Fund. The amount paid by Naidu is 125 more than that of Subramaniam. If the total money paid by them is $\overline{9} 975$, find the amount of money donated by Subramaniam.

QUE 24 : In a family, the consumption of wheat is 4 times that of rice. The total consumption of the two cereals is 80 kg . Find the quantities of rice and wheat consumed in the family.

Que 24 : A spring is 30 cm long and extends by 5 cm for each 100 gm weight hung on it .
(a) What is the spring length when 300 gm is hung from it ?
(b) What is the spring length when n 100 gm weights are hung from it ?
(c) What is the spring length when $\mathrm{n}=4$

