

(The top sheet of question paper, all question papers will be stapled on top of answer sheet)

THE ASSAM VALLEY SCHOOL

ENTRANCE EXAMINATION,

SUBJECT: MATHEMATICS

FOR ADMISSION TO CLASS - 7

Time: 1 hour

M.M: 50

(TO BE FILLED BY THE CANDIDATE)

Name

Date of birth

Studying in class

Class in which admission is desired

Registration Number

Name of Centre

Date

(TO BE FILLED BY THE EXAMINER)

MARKS OBTAINED IN PERCENTAGE

INITIALS OF THE EXAMINER

SIGNATURE OF THE EXAMINER

INITIALS OF THE CHAIR

SIGNATURE OF THE CHAIR

COMMENT OF THE CHAIR

Answers to this paper must be written on the paper provided separately. Answer **any five** questions. All working, including rough work, must be clearly shown and must be done on the same sheet as the rest of the answer. Omission of essential working will result in loss of marks. The intended marks for questions or parts of questions are given in brackets [].

Question1:- i) Add: $(-56) + (+24)$ [2×5=10]

ii) Convert $\frac{67}{13}$ into mixed fraction.

iii) Write 72 : 90 in simplest form.

iv) Find the complement of 37° .

v) Find the degree of $x^3y + x^2 + 1$.

Question2:- i) Classify the following algebraic expression.

a) $4x^2 - 3y$ b) $5x$ c) $2x + 6y - z$ [3]

ii) Draw an angle of 147° with the help of protractor. [3]

iii) Find the product: $1\frac{3}{4} \times 2\frac{1}{7} \times 4\frac{4}{5}$ [4]

Question3:- i) Find the L.C.M of 48, 60, 72 and 96. [5]

ii) If the cost of 16 pens is Rs 234.40, find the cost of each pen. [5]

Question 4:- i) Multiply: $2.45 \times 1.2 \times 0.5$ [5]

ii) Find the square root of 5625. [5]

Question5:- i) Find the H.C.F of 144, 180 and 198. [5]

ii) Find the product: $(-15) \times (-50)$ [2]

iii) The product of two integers is (-51) . If one of them is 17, find the other. [3]

Question 6:- i) Find the cube root of 729.

[5]

ii) Simplify : $6\frac{2}{3} + 4\frac{1}{6} - 2\frac{2}{9}$

[5]

Question 7:- i) Divide Rs 9002 among A,B and C in the ratio 3:4:7 .

[5]

ii) Write the numerical and literal coefficient of $(-5abc)$

[2]

iii) Write $5x^3y^2z$ in product form.

[2]

iv) Write $x \times x \times x$ -----12 times in exponential form.

[1]