SCHOOL BASED ASSESSMENT 2024-25

Mid-Term

Mathematics Grade 7

Objective: 10 MCQs (10x1.5=15 Marks) and Subjective: 35 Marks, Total: 50 Marks, Time = 1 Hour 30 minutes		
School Name:		
Student Name :	Roll Number:	Section :

OBJECTIVE PART(MCQs)

Question No.1: $(3a-b)^2$ is equal to:

(a)
$$9a^2+2ab+b^2$$

(b)
$$9a^2-6ab+b^2$$

(c)
$$9a^2 - 6ab - b^2$$

(d)
$$9a^2 + 6ab - b^2$$

Question No.3 : The solution of linear equation 5(2x-1)=15 is:

(a) 2

(b) 3

(c) 4

(d) 5

Question No.5: Meters in 2.1km are:

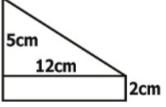
(a) 2000m

- (b) 2100m
- (c) 21000m
- (d) 22000m

Question No.7: A train covers a distance of 140 km in 2 hours, its average speed is:

- (a) 70 km/h
- (b) 140 km/h
- (c) 150 km/h
- (d) 280 km/h

Question No.9: The area of given figure is:



- (a) $20 \ cm^2$
- (b) $24 \ cm^2$

(c) $30 \ cm^2$

(d) $54 \ cm^2$

Question No.2: The point (-3, -6) lies in the quadrant:

(a) I

(b) II

(c) III

(d) IV

Question No.4: The equation of the statment "cost of 5 pencils and 8 books is Rs 1250" will be:

- (a) 5y-8y=1250
- (b) 5x 8x = 1250
- (c) 5x 7x = 1250
- $\mathsf{(d)}\,5x + 8y = 1250$

Question No.6: 108km/h in m/s will be:

(a) 30m/s

(b) 31m/s

(c) 32m/s

(d) 33m/s

Question No.8: The circumference of the circle with radius 5 cm is:

(a) 5π cm

(b) 10π cm

(c) 15π cm

(d) 25π cm

Question No.10: The shortest distance of fixed point A from the given line is:



(a) \overline{AB}

(b) \overline{AC}

(c) \overline{AD}

(d) \overline{AE}

SUBJECTIVE PART(CRQs)

Question No: 11

- a) Factorize $4xy^2+6y^3-2y^2-12xy^3$ (5 marks)
- b) Solve the equation $8x-13=4(x-2)\,$ (5 marks)

Question No: 12

- a) The speed of a train is 52 km/h in 5 hours and 73 km/h in next 2 hours. Find the avrage speed of the train in 7 hours. (5 Marks)
- b) Construct an equilateral triangle ABC of side length 4cm. (5 Marks)

Question No: 13

- a) A bus starts travelling at 6:15 a.m. and stops at 9:50 p.m. Find the journey time. (8 Marks)
- b) If the radius and height of a cylinder are 5cm and 12cm respectively, then find the volume of the cylinder. (7 marks)