SUMMATIVE ASSESSMENT - III - 2016-2017 MATHEMATICS (English Medium) PRINCIPALS OF EVALUATION

Class : VI

Section - I

1.	The length of a rectangular field = $60 m$		
	By the problem, breadth of the filed = $\frac{1}{2} \times 60m = 30m$	1 Mark	
	\therefore Area of the rectangular field = length × breadth sq. units	¹ / ₂ Mark	
	$= 60 \times 30$ sq.m.		
	= 1800 sq.m	¹ / ₂ Mark	
2.	Natural objects which have two or more than two lines of symmetry are :		
	1) Water melon	1 Mark	
	2) Apple	1 Mark	
	[For any other correct answers marks should be awarded]		
3.	The smallest number, having four different prime factors is $2 \times 3 \times 5 \times 7$		
	i.e. 210	1 Mark	
4.	Cost of one note book = ₹ 15		
	Number of note books that Chandana bought $= 12$		
	Amount that Chandana has to pay to the shopkeeper = ₹ 15×12		
	Number of note books that Waseela bought $= 10$		
	Amount that Waseela has to pay to the shopkeeper = $₹ 15 \times 10$		
	\therefore Total amount that Chandana and Waseela have to pay to the		
	shopkeeper = ₹ 15 × 12 + ₹ 15 × 10	¹ / ₂ Mark	
	=₹15[12+10]		
	=₹1512		
	= 330	¹ / ₂ Mark	

Section - II

5.	Ratio of Rahul's marbles to Tushar's marbles $= 2:3$	1 Mark
	Total parts = $2 + 3 = 5$	1 Mark
	Total number of marbles $= 25$	1 Mark
	\therefore Tushar's share of Marbles = $25 \times \frac{3}{5}$	
	= 15	1 Mark
6.	(i) $(-6) - (5) - (+2) = -6 - 5 - 2$	1 Mark
	= - 13	1 Mark
	(ii) $(-3) + (-6) + (-24) = -3 - 6 - 24$	1 Mark
	= - 33	1 Mark
7.	The number of blades that a fan has $= 3$	1 Mark
	Number of fans = n (say)	1 Mark
	The number of blades for 'n' fans = $3 \times n$	1 Mark
	=3n	¹ / ₂ Mark
	\therefore The required rule = $3n$	¹ / ₂ Mark
8.	i) $1\frac{2}{7} = \frac{7 \times 1 + 2}{7} = \frac{7 + 2}{7} = \frac{9}{7}$	1 Mark
	ii) $3\frac{2}{8} = \frac{8 \times 3 + 2}{8}$ = $\frac{24 + 2}{8}$ = $\frac{26}{8}$	1 Mark
	iii) $10\frac{2}{9} = \frac{9 \times 10 + 2}{9}$ = $\frac{90 + 2}{2}$ = $\frac{92}{9}$	1 Mark

	iv) 8	$\frac{7}{9} = \frac{9 \times 8 + 7}{9}$	
		$=\frac{72+7}{9}=\frac{79}{9}$	1 Mark
9.	i)	No. of sides of the polygon = 5	
		Name of the polygon = Pentagon	1 Mark
	ii)	No. of sides of the polygon = 4	
	Name of the polygon = Quadrilateral		1 Mark
	iii)	No. of the polygon $= 6$	
		Name of the polygon - Hexagon	1 Mark
	iv)	No. of sides of the polygon $= 3$	
		Name of the polygon = triangle	1 Mark
		Section - III	
10.	Leng	gth of the piece of land = $5m$	
	Brea	adth of the piece of land = $4m$	1 mark
	Area	1 Mark	
		2 Mark	
	Area	a of each square flower bed $= 1$ sq. metre	1 Mark
	Area	1 Mark	
	:: A	1 Mark	
		= 15 sq. metres	1 Mark
		(or)	
	i)	Income for 15 months = ₹ 18000	1 Mark
		Income for 1 month = $\overline{\epsilon} \frac{18000}{15}$	1 Mark
		$\therefore \text{ Income for 7 months} = ₹ \frac{18000}{15} \times 7$	
		=₹1200 × 7	2 Marks
		=₹ 8400	

	ii)	No. of months required to earn ₹ 18000 = 15	1Mark	
		No. of months required to earn $\gtrless 1\frac{15}{18000}$	1 Mark	
		∴ No. of months required to earn ₹ $3000 = \frac{15}{18000} \times 30000$		
		= 25	2 Marks	
11.	Leng	gth of the room = $12m$		
	Brea	adth of the room = $15m$	1 Mark	
	Heig	ght of the room = 18 m		
	The dime	H.C.F. of 12, 15, 18 will give us the length of the tape which can measure ensions of the room exactly.	all the three 2 Marks	
	12 = 15 = 18 =	$= 2 \times 2 \times \begin{pmatrix} 3 \\ 3 \\ 3 \\ 2 \times 3 \times \begin{pmatrix} 3 \\ 3 \\ 3 \end{pmatrix} \times 5$	3 Marks	
	H.C	.F. of 12, 15 and 18 is 3	1 Mark	
	.: T	he length of the longest tape that can measure		
	al	I the three dimensions of the room exactly $= 3$ meteres	1 Mark	
		(or)		
	The	cost of petrol per litre = $₹70$	2 Marks	
	No.	of litres petrol sold in a day $= 750$	2 Marks	
	Money that petrol bunk gets for a day = ₹ 750×70		2 Marks	
		=₹ 52500	2 Marks	
12.	i)	An angle smaller than right angle is actue angle. [True)	1 Mark	
	ii)	A right angle measures 180 ⁰ . [False]		
		<u>Correst statement</u> : A right angle measures 90° .		
	iii)	A straight angle measures 90 ^o [False]	1 Mark	
		Correct statement : A straight angle measures 180°.		
	iv)	An angle whose measure lives between 180° and 360° is a reflex angle. [True]	1 Mark	

4

For construction	4 Marks
Writing steps of constuction	2 Marks
$MN = 12 \text{ cm}, AB = 4 \text{ cm}, 3AB = 3 \times 4 \text{ cm} = 12 \text{ cm} = MN$	2 Marks

13. Scale : 5 votes

Note : Any symble can be taken for scale.

Pictograph

Symbol	Number of votes
Sun	
Pot	
Tree	
Watch	

(or)

5 Marks

For writing steps of construction

For constuction

3 Marks

PART - B

14.	С	26.	С
15.	С	27.	С
16.	С	28.	С
17.	В	29.	С
18.	В	30.	D
19.	D	31.	В
20.	С	32.	D
21.	А	33.	D
22.	В		
23.	А		
24.	А		
25.	В		