

KENDRIYA VIDYALAYA SANGATHAN

HYDERABAD REGION

SCORING KEY FOR COMMON SUMMATIVE ASSESSMENT – II

SESSION

CLASS: VIII

SUBJECT: MATHEMATICS

SECTION – A

For each correct answer: 1 mark

- 1) D
- 2) C
- 3) D
- 4) B
- 5) D
- 6) D
- 7) A
- 8) B

SECTION – B

9) WAGE (in Rs)	NO.OF WORKERS	(8*1/4=2m)
2100-2110	3	
2110-2120	2	
2120-2130	1	
2130-2140	9	
2140-2150	5	
2150-2160	1	
2160-2170	3	
2170-2180	1	
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TOTAL	25	

- 10) Euler's Formula:  $F + V - E = 2$  1/2m  
 $20 + 12 - E = 2$  1/2m  
 $E = 32 - 2 = 30$  1m

11)

- (i)  $0.00000000837 = 8.37 \times 10^{-9}$  1m
- (ii)  $3.61492 \times 10^6 = 3614920$  1m

Or

$$\left\{ \left( \frac{1}{3} \right)^{-2} - \left( \frac{1}{2} \right)^{-3} \right\} \div \left( \frac{1}{4} \right)^{-2} = (3^2 - 2^3) \div 4^2$$

$$= (9-8) \div 16$$

$$= 1/16$$

1m

1/2m

1/2m

12)

No. of bottles	840	x
Time( in hr)	6	5

DIRECT VARIATION

1/2m

$$840/6 = x/5$$

1/2m

$$x=700$$

1m

13)  $15pq+25p+15+9q$

1/2m

$$= 5p(3q+5) + 3(5+3q)$$

1/2m

$$= (5p+3)(3q+5)$$

1m

14) Sum of the digits  $=3+1+z+5=9+z$

1/2m

$9+z$  is one of the multiples of 9 i.e.,  $9+z$  is one of the nos. of 0,9,18,27, so on.

1/2m

Since  $z$  is a digit, therefore  $9+z=9$  or 18

1/2m

$z=0$  or 9

1/2m

### SECTION- C

15) For finding central angles (Blue-180°, Yellow-30°, Red-60°, Green-90°)

1m

For correct Pie chart

2m

$$16) (i) (2x+5)(4x-3) = 8x^2 - 6x + 20x - 15$$

$$= 8x^2 + 14x - 15$$

1/2m

1m

$$(ii) (t+s^2)(t^2+s) = t^3 + ts + s^2t^2 + s^3$$

1 1/2m

Or

$$(i) 2x(z-x-y) + 2y(z-y-x) = 2xz - 2x^2 - 2xy + 2yz - 2y^2 - 2xy$$

$$= -2x^2 - 2y^2 - 4xy + 2yz + 2zx$$

1m

1/2m

(ii) For removing brackets

1/2m

For correct answer  $5l^2 + 25ln$

1m

17) For  $r=42\text{cm}=0.42\text{m}$

1/2ms

For correct formula

1/2m

Area covered in one revolution  $= 2.64\text{m}^2$

1m

Or

For correct formula		1/2m
For substitution of values		1m
For correct answer b=7cm		1 ½ m
18) For each correct view		1m
19) $5^{m-(-3)} = 5^5$		1m
For simplification $m+3=5$		1m
For correct answer= $m=2$		1m
20) NO.OF CHILDREN	24 20	} 1/2m
NO.OF SWEETS	5 y	
Inverse variation		1/2m
$24 \times 5 = 20 \times y$		1m
For $y=6$		1m
21) (i) For taking 3 common		1/2m
For correct answer =xy		1m
(ii) For factorization of $y^2+7y+10$		1m
For correct answer= $y+2$		1/2m
22) Sum in One's column= $A + 8 =3$		1/2m
A has to be 5		1/2m
$(A+8=5+8=13)$		
Sum in ten's column= $1+4+9= 14$		1m
B has to be 4		1/2m
C has to be 1		1/2m

**SECTION –D**

23) VCR	
For loss=Rs.320	1/2m
For SP=Rs.7680	1m

For Profit=Rs.640-----	1/2m
For SP=Rs.8640-----	1m
Profit on whole transaction=Rs. 320-----	1/2m
For gain%=2-----	1/2m

Or

FABINA (Simple Interest case)

For correct formula of SI -----	1/2m
For getting SI =Rs.4500-----	1m

RADHA ( Compound interest case)

For correct formula of Amount-----	1/2m
For getting Amount =Rs.16637.50-----	1m
For getting correct CI=Rs.4137.50-----	1/2m
Fabina pays more interest by Rs.362.50-----	1/2m

24) (i)For expansion by using identity----- 1m

For correct answer= $4y^2+20y+25$ ----- 1 m

(ii)(153+147)(153-147)----- 1m

= $300 \times 6$ ----- 1/2m

=1800----- 1/2m

25)Formula for area of a rhombus----- 1/2m

Area of 1 tile =675 sq.cm----- 1m

Area of 3000 tiles=2025000 sq.cm----- 1m

For converting 2025000sq.cm into sq. m= $202.5\text{sq.m}$ -----1/2m

For total cost =Rs. 810----- 1m

26)For suitable scales----- 1m

For graph----- 2m

(i) 20km----- 1/2m

(ii)7.30a.m.----- 1/2m

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