INDIAN SCHOOL AL WADI AL KABIR

Mid-Term Examination (2022-23) **MARKING SCHEME**

Class: VI | Sub: MATHEMATICS | Max Marks: 80

Date: 22/09/2022 | Set - I | Time: $2\frac{1}{2}$ hours

Instructions:

Section A: Multiple Choice Question (Q.1 to Q.5) & Source-based Question (Q.6)
Section B: Short Answer Questions of 2 marks each (Q.7 to Q.15)
Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.16 to Q.23)
Section D: Long Answer Questions (Type – 2) (Q.24 to Q.28)
& Case study Question (Q.29 & Q.30) of 4 marks each

22-09-2022

Section A: Multiple Choice Question (Q.1 to Q.5) of **1** mark each **(SEREENA - 1 TO 9)**

1. Write in the numeral. Nine crores fifty-one lakh seventy-two thousand four hundred twenty-three

C 9,51,72,423 ✓

2. Which property of addition of whole numbers is indicated here?
19 + 63 = 63 + 19

A Commutativity ✓

3. Which of the following numbers are factors of 18?

D 6, 3 ✓

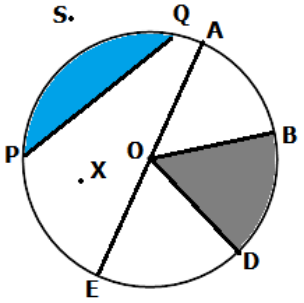
4. If A and B are two points. How many lines can be drawn passing through both A and B?

A 1

5. A matchbox is an example of a three-dimensional figure.

C Cuboid ✓

6. **Source-based Question-5 Marks** (Q.6)
Look at the figure shown below and answer the following questions.



I What is the term used to describe the boundary of a circle?

B Circumference ✓

II Write two points in the interior of the circle.

C X and O ✓

III A shaded region enclosed between $\overline{OD}$, $\overline{OB}$ and an arc is called as_____.

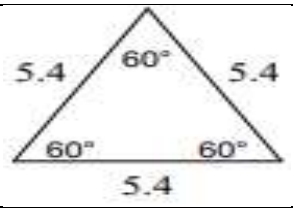
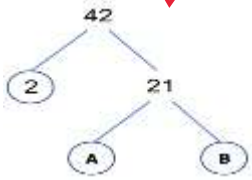
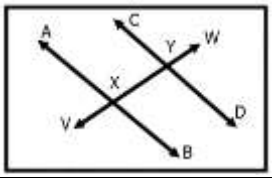
A Sector ✓

IV _____is the longest chord of the circle.

A $\overline{AE}$ ✓

V Name the shaded region enclosed between a chord and an arc.

B Segment ✓

Section B: Short Answer Questions (Type – 1) of 2 marks each (Q.7 to Q.15)	
7.	Do as directed: (i) Write Roman numerals for 75. **LXXV** ----------1 mark (ii) Round off **23,658** Nearest 1000. **24,000** ----------1 mark
8.	Check 12,456 is divisible by 6. **Divisible by 2** ✓ ½ mark **Divisible by 3** ✓ ½ mark **Divisible by 6** ✓ 1 mark
9.	Classify the given triangle by its angles and sides. (i) **Equilateral triangle**----------1 mark (ii) **Acute triangle**----------1 mark 
JOBBY – 10 TO 16	
10.	A Factory on average makes 460 shirts and 240 pants in a day. How many total clothes did it produce in 5 days? $460 + 240 = 700$ ----------1 mark $700 \times 5 = 3500$ ----------1 mark
11.	(i) What part of a revolution have you turned through if you stand facing North and turn clockwise to face East? **¼ of revolution**. ----------1 mark (ii) Which direction will you face if you start facing East and make a half revolution? **West** ----------1 mark
12.	Find the successor and predecessor of the greatest three-digit number. **Greatest three- 999** ----------1 mark **Suc- 1000**---------- ½ mark **Pre - 998** ---------- ½ mark
13.	Find 7 + 9 using a number line. **Number line** ----------1 mark **7+9 on a number line** ----------1 mark
14.	Find the missing numbers **A** and **B**. **A =3**, ----------1 mark **B = 7** ----------1 mark 
15.	Use the figure to name: (a) **a pair of parallel lines.** **AB // CD** ----------1 mark (b) **a pair of intersecting lines.** **Anyone $\overline{VW}, \overline{AB}$ or $\overline{VW}, \overline{CD}$**----------1 mark 
Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.16 to Q.23)	
16.	Find using the suitable property and also name the property used. i) $54279 \times 92 + 54279 \times 8$ $= 54279\ (92 + 8)$ ----------1 mark $= 54279(100)$ ----------1 mark $= 5427900$----------1 mark

SONI – 17 TO 22

17. Find the sum of the greatest and the least five-digit numbers formed by the digits 2, 0, 7, 4, and 5 using each digit only once.

G---75420 ✓ S---20457 ✓ SUM = 95,877 ✓

18. What is the LCM of 21, 35, and 42?

Each row ½ mark ✓

LCM = 2 × 3× 5 × 7 = 210 ----------1 mark ✓

2 ✓	21, 35, 42
3 ✓	21, 35, 21
5 ✓	7, 35 , 7
7 ✓	7, 7 ,7
	1, 1, 1

19. Guram Singh lives in a hostel that charges ₹160 for lunch and ₹140 for dinner. What amount of money does he have to pay for 15 days?

= 160 ×15 + 140 × 15 ✓ ----------1 mark

= 15× (160 + 140) ✓ ----------1 mark

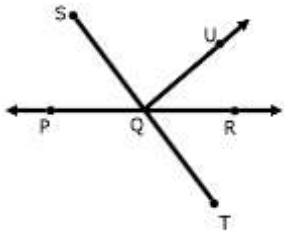
= 15 × 300 ✓ ---------- ½ mark

= 4500 ------ ½ mark ✓

20. Identify using the diagram.

1. Any three-line segments. $\overline{SQ}$, $\overline{QT}$, $\overline{ST}$ or any other ½ EACH ✓

2. Any three rays. $\overline{QU}$, $\overline{QR}$, $\overline{QP}$ ----------½ EACH ✓

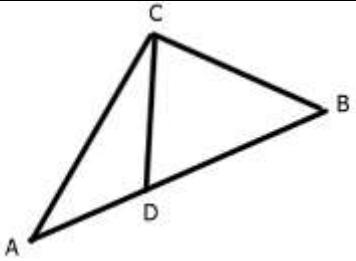


21. (a) Identify three triangles in the figure

△ ABC , △ ADC, △ BDC ---------- 2 marks ✓

(b) Which two triangles have ∠D as common in them.

△ ADC , △ BDC ---------1 mark ✓



22. Using divisibility tests, determine that 637219 is divisible by 11.

9+2+3=14 & 1+7+6=14, 14-14=0. DIV BY 11

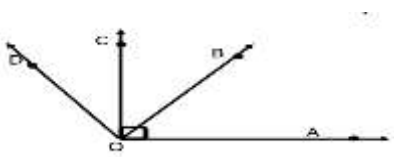
AJITHA – 23 TO 26

23. From the given figure, the Name

(a) An Acute angle. ∠BOA ,or ∠BOC, or ∠COD----------1 mark ✓

(b) An Obtuse angle. ∠DOA----------1 mark ✓

(c) A Right angle. ∠EOA----------1 mark ✓



Section D: Long Answer Questions (Type – 2) (Q.24 to Q.28)

& Case study (Q.29 &30) of 4 marks each.

24. There are 390 and 364 students in classes VI and VII in a school, Buses are hired to take these students for a picnic. Find the maximum number of students who can sit in a bus if each bus carries an equal number of students.

2	390 ✓		2	364 ✓
3	195 ✓	----------½----------	2	182 ✓
5	65 ✓	----------½----------	7	91 ✓
13	13 ✓	----------½----------	13	13 ✓
	1			1

PF 390=2 X 3 X 5 X 13 ----------1 ½ mark ✓

PF 364 =2 X 2 X 7 X 13----------1 ½ mark ✓

HCF = 2 X 13 = 26----------1 mark ✓

25. Draw a sketch of a quadrilateral DEFG. State Drawing 1 mark

(a) **two pairs of opposite sides**. -------- ½ + ½ mark ✓

(b) **two pairs of adjacent sides**. --------½ + ½ mark ✓

(c) **two pairs of opposite angles**. --------½ + ½ mark ✓

26. The town printing press publishes 1,01,980 copies of English paper and 1, 50,100 copies of Hindi paper every day. Find the total number of papers published by the press. Which paper is published more in number and by how much more?

English paper 1, 01, 980 ----------1/2 ✓

***Hindi paper* 1, 50, 100** –1/2 ✓

***Total* = 2, 52, 080** ----------1 ½ mark ✓

Hindi more ---------- ½ mark ✓

By how much =42,120 ----------1 mark ✓

SHIJI – 27 TO 30

27. Find using suitable properties.

(i) 125 × 8 × 101

= (125× 8) × 101 ---------- ½ mark ✓

= 1000 × 101 ----------1 mark ✓

= 101000 ---------- ½ mark ✓

(ii) 205 + 833 + 167 + 495

= (205 +495) + (833 + 167) --------- ½ mark ✓

= 700 + 1000 ---------- ½ + ½ mark ✓

= 1700 ---------- ½ mark ✓

28. Match the following

a.	A quadrilateral which has two opposite sides parallel .	i	Straight angle
b.	The angle name for measuring more than 180°.	ii	Hexagon
c.	The angle name for half of a revolution.	iii	Reflex angle
d.	A polygon with 6 sides.	iv	Polygon
		v	Rectangle

a = v ✓ b = iii ✓ c = i ✓ d = ii ✓

29. **Case Study-1**

The school offers you and your friends the opportunity to plant a tree sapling in support of Grade VI students Garden club planting Activity, which will promote tree planting practices among students and thus improve our environment. There are 24 boys and 20 girls in Grade VI.

I. What is the minimum number of trees needed for planting trees so that they can be distributed equally among all students?

A 120 ✓

II. The product of prime factors of 24 is

C $2 \times 2 \times 2 \times 3$ ✓

III. Which of the following is a co- prime?

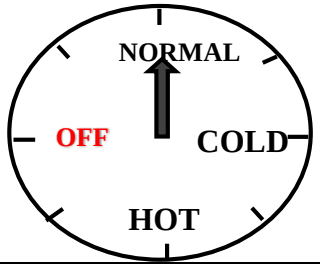
B (3, 5) ✓

IV. Find the HCF of (24, 20).

D 4 ✓

30. **Case Study-2**

Anita purchased a new kitchen appliance from the market.
Marking on the knob of the appliance is shown in the given figure.



I. How many right angles does the pointer turn when it moves clockwise from OFF to COLD?

D ✓ 2

II. How many degrees does the pointer turn when it moves from COLD to NORMAL in a clockwise direction?

C 270^0 ✓

III. Where will the pointer reach when it turns 180° from NORMAL?

B HOT ✓

IV. Where will the pointer reach when it completes $\frac{3}{4}$ of a revolution from OFF in a clockwise direction?

D NORMAL ✓