



Unified International
Mathematics Olympiad

UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD

CLASS - 2

Question Paper Code : UM9264

KEY

1	2	3	4	5	6	7	8	9	10
C	B	C	C	B	B	C	A	B	A
11	12	13	14	15	16	17	18	19	20
D	B	B	D	D	D	B	C	D	A
21	22	23	24	25	26	27	28	29	30
C	C	B	C	A	B	C	A	D	B
31	32	33	34	35	36	37	38	39	40
A	B	B	C	A	A	B	D	C	D

EXPLANATIONS

MATHEMATICS

01. (C) Option (A) : $22 - 10 < 15$
 $12 < 15$ (✓)
 Option (B) : $22 - 9 < 15$
 $11 < 15$ (✓)
 Option (C) : $22 - 7 < 15$
 $15 < 15$ (✗)
 Option (D) : $22 - 8 < 15$
 $14 < 15$ (✓)

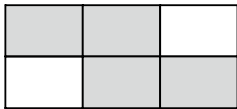
02. (B) Option (A) : $10 + 15 = 15 - 10$
 $25 = 5$ (✗)
 Option (B) : $10 + 30 = 65 - 25$
 $40 = 40$ (✓)
 Option (C) : $10 + 25 = 65 - 15$
 $35 = 50$ (✗)
 Option (D) : $15 + 25 = 65 - 10$
 $40 = 55$ (✗)

03. (C) $6 \div 3 = 2$ $8 \div 4 = 2$
 $2 = 2$
04. (C) The sum of the top faces is 11
 So $5 + 6 = 11$
 Opposite of 5 in dice = 2
 Opposite of 6 in dice = 1
 Sum of two opposite faces = $2 + 1 = 3$
05. (B) Any number divided by 1 is equal to the number itself.
06. (B) Denominator = 8
07. (C) Number of fish tanks = 4
 Number of fish in each tank = $10 \times 4 = 40$
 More fish tanks bought = 1
 Total tanks = 5
 Number of fish in each tank = $40 \div 5 = 8$
08. (A) $3 \text{ (circle)} + 2 \text{ (triangle)} + 2 \text{ (circle)} + \text{heart} = 23 + 16$
 $5 \text{ (circle)} + 2 \text{ (triangle)} + \text{heart} = 39$
 $5 \text{ (circle)} + 14 = 39$
 $5 \text{ (circle)} = 39 - 14$
 $= 25$
 $\text{circle} = 25 \div 5$
 $= 5$
09. (B) Shaded fraction of the given figure = $\frac{1}{3}$
10. (A) Among all options, option 'A' is heaviest
11. (D) 12 centimeters long
12. (B) $85 + 5 \square 82 - 3$
 $90 \square 79$
13. (B) $1 \text{ kg} = 100 \text{ g}$
 $1000 + 500 + 500 = 2000 \text{ g}$
 $= 2 \text{ kg}$
14. (D) Both (B) and (C) cannot be used to buy a bicycle priced rupees 1000

15. (D) 15 minutes after 5 O'clock is 5:15

16. (D) $\text{₹ } 100 \div 5 = \text{₹ } 20$

17. (B)

$26 + 4$	5×6	$29 - 1$	$=$	
2×10	3×10	$32 - 2$		

18. (C) 3 groups of 3 is 9

19. (D) Option (A) : $8 \times 5 = 5 \times 8$

$$40 = 40$$

$$\text{Option (C) : } 8 \times 6 = 6 \times 8$$

$$48 = 48$$

Both (A) and (C)

20. (A) Three times ten = $10 \times 10 \times 10 = 1000$

Zero is the same digit in ones, tens and hundreds place

21. (C) Option (A) : $3 + 6 = 9$

$$\text{Option (B) : } 4 + 3 = 7$$

$$\text{Option (C) : } 5 + 5 = 10 \text{ (Even number)}$$

$$\text{Option (D) : } 7 + 2 = 9$$

22. (C) $5 - 2 = 3 \text{ m}$

23. (B) Smallest 3 digit even number = 248

24. (C) $30 > \text{number} < 60$

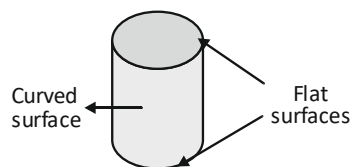
from the given options

option (C) 47

7 is in ones place and 4 is in tens place

$$4 + 3 = 7$$

25. (A)




26. (B) $6 - 4 = 2$

27. (C) It has 6 square shaped faces.

28. (A) T is lighter than B. R is lighter than T. Hence, R is the lightest and B is the heaviest.

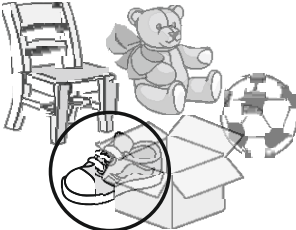
29. (D) Counting pattern for the minute hand is 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60

30. (B)  = 1 group of 5

 = 3 groups of 5
 $= 3 \times 5$
 $= 15$

REASONING

31. (A) Every time '1' is added to the previous number.

32. (B) 

33. (B) Except cucumber remaining vegetables are grown underground.



34. (C)

♥	♥	
	♥	

 :

		■
■		■

♥		♥
	♥	

 :

	■	
■		■

♥		
	♥	♥

 :

	■	■
■		

35. (A)



36. (A) There are 5 lines with 4 owls each.

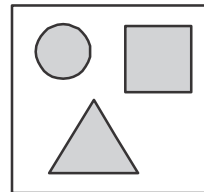
$$5 \times 4 = 20 \text{ owls}$$

There are 5 empty squares

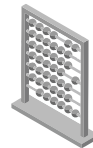
$$= 20 - 5 = 15 \text{ more owls than squares}$$

37. (B) Every time pentagon shape one step clockwise direction.

38. (D)



39. (C) Given items in the question are instruments.



40. (D)



==== The End =====