UIMO
Unified International Mathematics Olympiad

UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD

CLASS - 2
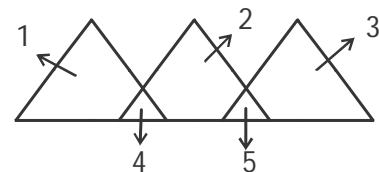### Question Paper Code : *4P104*

KEY

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

SOLUTIONS

MATHEMATICS

01. (C) 42, 44, 46, 48, 50, 52, 54, 55, 56, 58 are even numbers between 40 and 60.

02. (C) 800 − 80 = 720

03. (A) 20l − 15l = 5l

04. (A) April, June, September and November

    So, there are 4 months in a year that have 30 days each.

05. (C) In addition and multiplication changing the order does not change the answer in subtraction the order does change the answer

06. (D) Rs. 5 × 4 = Rs. 20

07. (C)

08. (B)

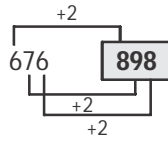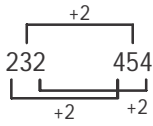| H	T	O
2	5	1

09. (B) 16 × 3 = 18 + 4 = 52

10. (C) The shape that has one vertex, one plane face, one curved face and one edge in a cone.

11. (D) $5 + 2 + 1 = 8$

   (A) $4 + 1 + 3 = 8$

   (B) $4 + 2 + 2 = 8$

   (C) $5 + 1 + 2 = 8$

   (D) $6 + 0 + 1 = 7$

12. (A)

   $3 + 3 + 3 + 3 = 12$

13. (A) $12 \div 3 = 4$

14. (C) Chintu > Bunny

15. (C) $2 + 3 = 3 + 2$ (F)

   $2 - 3 \neq 3 - 2$ (T)

   $19 + 23 = 42$ (T)

16. (A)
$$\begin{array}{r} 5\,4 \\ +\ 3\,8 \\ \hline 9\,2 \end{array}$$

17. (B) $\triangle = 3$

   $8 \times 3 = 24$

18. (C)

   P   R   Q

19. (D) A football is heavier than a feather.

20. (C) Measuring tape is used to measure room wall

21. (D)

22. (A)

23. (A) $20 + 10 + 10 = 30$

24. (A) 1 kg $= 1000$ g

   Among options 100 g is heaviest

25. (D) $900 - 372 = 528$

   $383 + 255 = 638$

   $862 - 264 = 598$

   $169 + 479 = 648$

26. (C) Avinash = 50 kg

   Madhu = 50 kg $-$ 4 kg = 46 kg

   Balaji = 50 kg + 5 kg = 55 kg

   50 kg + 46 kg + 55 kg = 151 kg

27. (B) From left $\underline{\ }\ \underline{\ }\ \underset{6^{th}}{\underline{3^{rd}}}\ \underline{\ }\ \underline{\ }\ \underline{\ }\ \underline{\ }$ From right

28. (D)

29. (C) $5\,6\,5\,6\,5\,\textcircled{7} \rightarrow$ odd

30. (A) $7 - 4 = 3$

   REASONING

31. (C) It is a repeated pattern in which the first four figures are repeated.

   Hence, 7th flag must be the same as the 3rd flag.

32. (A) There are 14 rectangles.

33. (D)

34. (D) In option (D), the circle is not in between the square and triangle and is also shaded.

35. (D) Letter positions interchange and number at the centre is decreased by 1. So, the required match is B1A.

36. (C)

37. (D)

38. (B) T appears in the word 'mathematics' but not in the word 'mechanics'.

39. (C) Option (C) is a calendar and the rest are clocks.

40. (B) 7 − 6 = 1, 1 × 1 = 1, 14 − 13 = 1

20 ÷ 10 = 2, 2 × 1 = 2, 20 − 18 = 2

2 + 1 = 3, 0 + 3 = 3, 9 ÷ 3 = 3

So, the required group is as that in (B).