



UNICUS OLYMPIADS

Sample Paper

Class 8

Unicus Critical Thinking Olympiad (UCTO)



Section	Total Questions	Marks per Questions	Total Marks
Classic Section	40	1	40
Scholar Section	10	2	20
Grand Total	50		60

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7. In the following question, the letters of the words (given in the options) have been jumbled up. Reconstruct the words and identify the one which is the answer to the given clue:
Name of a planet:

- a. BBHUEL
b. IROGV
c. RUJIPTE
d. YYIAWKML
-

8. Which of the following words will come second from the right end, if all of them are arranged alphabetically as in a dictionary?

- a. Afford
b. Avoid
c. Answer
d. After
-

9. How many dots lie opposite to the face with 2 dots?

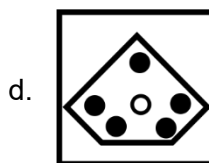
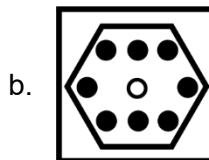


- a. 3
b. 4
c. 5
d. 6
-

10. One morning Richard started to walk towards his school. After covering 5 km distance in East, he turned to the left and walk 2 km, then again turns to the right and walk 5 km. He again turns to the left. Now, in which direction is he facing?

- a. East
b. West
c. North
d. South
-

11. In the following figure, choose the odd one out:

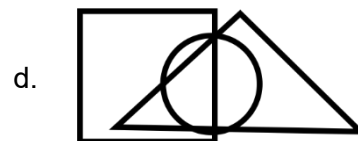
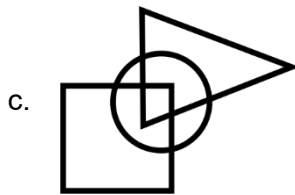
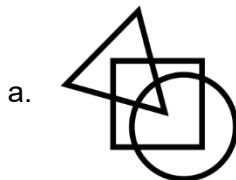
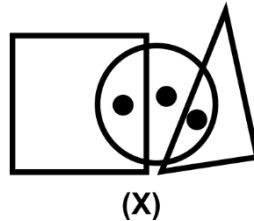


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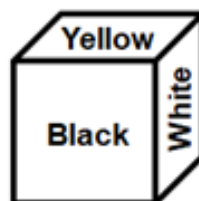
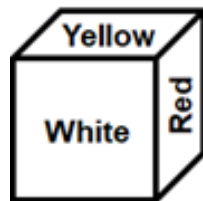
21. Andrew left his village and drove North for 20 km, after which he stopped for breakfast. Then he turned left and drove another 30 km when he stopped for lunch. After some rest, he again turned left and drove 20 km before stopping for evening tea. Once more he turned left and drove 30 km to reach the town where he had supper. After evening tea, in which direction did he drive?

- a. East
- b. West
- c. North
- d. South

22. In the question figure, three dots are shown. Find out the particular figure in which dots are placed in the same manner as in the question figure:

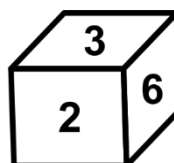
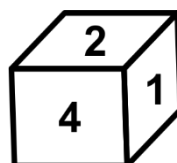


23. From the following two different appearances of dice, find out the colour which is opposite to Red:



- a. Blue
- b. Black
- c. White
- d. Yellow

24. Two positions of a dice are as given below. What will be the number at the bottom, if 5 is at the top?



- a. 1
- b. 2
- c. 3
- d. 6

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- a. 18th
- c. 20th

- b. 19th
- d. Data inadequate

29. In this question, the relationship between different elements is shown in the statements. The statements are followed by two conclusions.

Statements:

$$S > C \geq O, P < C$$

Conclusions

- I. $O < P$
- II. $S > P$

- a. Only Conclusion I is true
- b. Only Conclusion II is true
- c. Either Conclusion I or II is true
- d. Neither Conclusion I nor II is true

30. Read the following information carefully to answer the question that follows:

- I. 'A + B' means 'A is the son of B'.
- II. 'A - B' means 'A is the wife of B'.
- III. 'A X B' means 'A is the brother of B'.
- IV. 'A ÷ B' means 'A is the mother of B'.
- V. 'A = B' means 'A is the sister of B'.

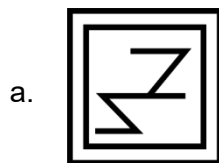
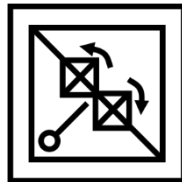
What does 'P = R ÷ Q' mean?

- a. P is the aunt of Q
- b. Q is the daughter of P
- c. P is the sister of Q
- d. Q is the niece of P

31. If January 1 is a Friday, then what is the first day of the month of March in a leap year?

- a. Tuesday
- b. Wednesday
- c. Thursday
- d. Friday

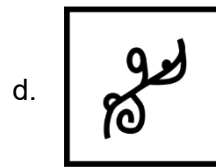
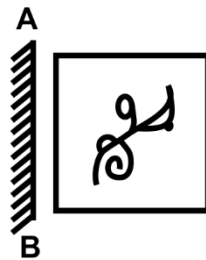
32. In the following question, find the figure from the options given below, which is embedded in the answer figure:



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33. In the following question, choose the correct mirror image from the alternatives, when the mirror is placed on line AB:



34. Which of the following will be the correct water image of the given figure?



35. Find the missing number in the given series:

1	1	2	3	5	8	13	?
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- a. 21
- c. 17

- b. 20
- d. 18

36. Three of the following four are alike in a certain way and so form a group. Which of the following does not belong to that group?

- a. 13
- c. 19

- b. 17
- d. 27

37. 'Talk' is related to 'Speak'. Similarly, 'Honest' is related to 'Truthful'. Following the same logic, 'Listen' is related to:

- a. Music
- c. Hear

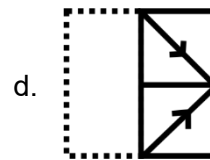
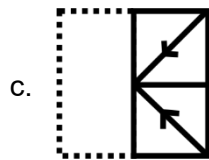
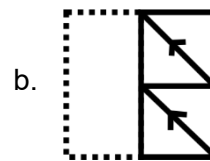
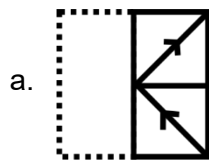
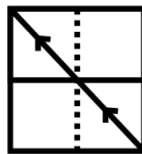
- b. Ears
- d. Sound

38. If + means -, - means x, \div means + and x means \div , then $15 - 3 + 10 \times 5 \div 5 = ?$

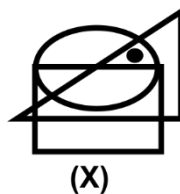
- a. 5
- c. 48

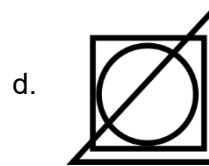
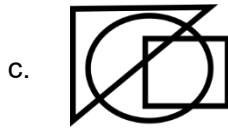
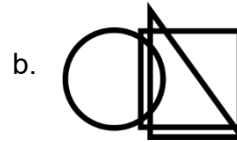
- b. 22
- d. 52

39. In the following problem, a square transparent sheet with a pattern is given. Figure out from amongst the four alternatives, which pattern would appear when the transparent sheet is folded at the dotted lines.



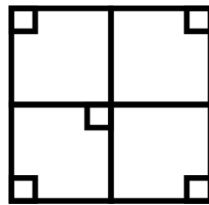
40. In the following question, from amongst the figures, select the one which satisfies the same conditions of placement of the dot as in fig. (X).





Scholar Section (Each Question is 2 Marks)

41. How many squares are there in the figure given below?



- a. 10
c. 8

- b. 12
d. 14

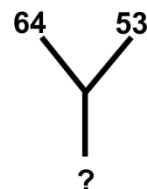
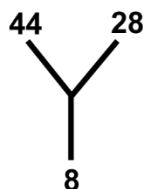
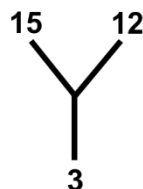
42. Which number will replace the question mark?

6	7	8
10	16	22
8	?	6

- a. 7
c. 14

- b. 10
d. 12

43. Find the missing number from the given responses in the following question:



- a. 12
c. 70

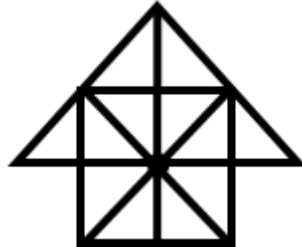
- b. 13
d. 117

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44. Sam's sister is the wife of Richard. Richard is Kate's brother. Richard's father is Michael. Susan is Richard's grandmother. Rose is Susan's daughter-in-law. Robert is Kate's brother's son. Who is Robert to Sam?

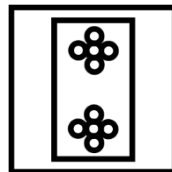
- | | |
|-------------------|-----------|
| a. Brother-in-law | b. Son |
| c. Brother | d. Nephew |

45. Study the given figure and count the number of triangles and squares in the given figure:



- | | |
|----------------------------|----------------------------|
| a. 27 triangles, 5 squares | b. 28 triangles, 5 squares |
| c. 27 triangles, 6 squares | d. 28 triangles, 6 squares |

46. A rectangular paper is folded in a particular manner and a punch is made. When unfolded, the paper appears as given below. Find out the manner in which the paper is folded and punch is made from the responses given:



- | | |
|----|----|
| a. | b. |
| c. | d. |

47. In the question below, a statement is followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the assumptions and decide which of the assumption(s) is/are implicit in the statement.

Statement- The next meeting of the governing body of the Microsoft will be held after one year.

Assumptions

- I. There will be no meeting before one year.
- II. Microsoft will remain in function after one year.

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- a. Only Assumption I is implicit
 - b. Only Assumption II is implicit
 - c. Either I or II is implicit
 - d. Neither I nor II is implicit
-

48. Examine carefully the following statements and answer the three items that follow. Out of four friends A, B, C and D
- I. A and B play football and cricket
 - II. B and C play cricket and hockey
 - III. A and D play basketball and football
 - IV. C and D play hockey and basketball

Which game do B, C and D play?

- a. Basketball
 - b. Hockey
 - c. Cricket
 - d. Football
-

49. In the question given below, there are two Statements A and B. These statements may be either independent causes or may be effects of independent causes or of a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choices correctly depicts the relationship between these two statements.

- A. Austin is a healthy boy.
- B. His mother is very particular about the food he eats.

- a. Statement A is the cause and Statement B is its effect
 - b. Statement B is the cause and Statement A is its effect
 - c. Both statements are independent causes
 - d. Both statements are effects of independent causes
-

50. In this question, relationship between different elements is shown in the statements. The statements are followed by two conclusions.

Statements: $A \leq B < C$; $A \geq D$; $C \leq F$

Conclusions: I. $D < C$; II. $F \geq D$

- a. Only Conclusion I is true
 - b. Only Conclusion II is true
 - c. Either Conclusion I or II is true
 - d. Neither Conclusion I nor II is true
-

Answer Key

1.	d	2.	d	3.	d	4.	d	5.	d	6.	a	7.	c
8.	c	9.	c	10.	c	11.	b	12.	b	13.	c	14.	b
15.	a	16.	d	17.	a	18.	c	19.	b	20.	b	21.	a
22.	c	23.	b	24.	b	25.	a	26.	d	27.	d	28.	b
29.	b	30.	a	31.	a	32.	b	33.	b	34.	c	35.	a
36.	d	37.	c	38.	c	39.	a	40.	c	41.	a	42.	a
43.	b	44.	d	45.	d	46.	a	47.	a	48.	b	49.	b
50.	a												