



UNICUS
OLYMPIADS

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Sample Paper



Class 8

Unicus Critical Thinking Olympiad (UCTO)

Time: 60 minutes

Pattern and Marking Scheme			
Section	Total Questions	Marks per Question	Total Marks
Classic Section	40	1	40
Scholar Section	10	2	20
Grand Total	50		60

Classic Section (Each Question is 1 Mark)

1. 14 is to 196, as 16 is to:

- [illegible]

2. Find the missing number in the given series:

8	64	216	512	?	1728
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- a. 1331 b. 729
c. 999 d. 1000

3. Find the missing numbers in the given series:

2004	2009	2016	?	2036	?	2064
------	------	------	---	------	---	------

- a. 2008, 2036
b. 2001, 2010
c. 2025, 2094
d. 2025, 2049

4. Find the odd one out:

345	365	380	405
(a)	(b)	(c)	(d)

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

5. If HEALTH is coded as GDZKSG, then code for NORTH is:

- a. OPSUI b. GSQNM
c. FRPML d. MNQSG

6. If CORDIAL is coded as ENTCKZN, then code for SOMEDAY is:

- a. UNODFZA b. UNECKZN
c. DFZANOU d. DFZNouA

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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
c. RUJIPTE

b. IROGV
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
c. Answer

b. Avoid
d. After

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



(i)



(ii)



(iii)

a. 3
c. 5

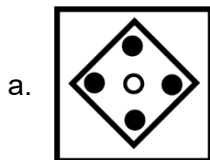
b. 4
d. 6

- 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?

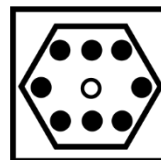
a. East
c. North

b. West
d. South

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



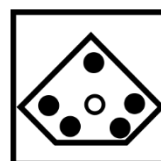
a.



b.

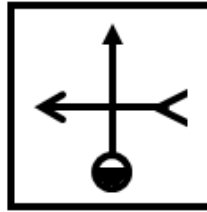


C.

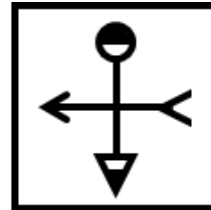
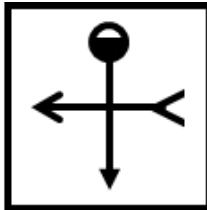
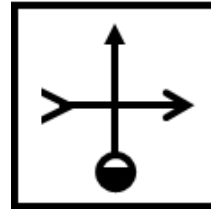
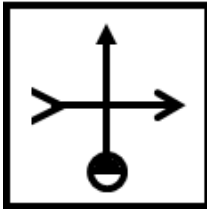


d.

12. In the following question, choose the correct mirror image of the given figure (x) (if the mirror is placed vertically right to the figure):



(x)



13. In a certain code, LONDON is coded as 24 — 30 — 28 — 8 — 30 — 28. How will FRANCE be coded?

- a. 10 - 24 - 6 - 28 - 6 - 12 b. 12 - 26 - 6 - 28 - 8 - 10
c. 12 - 36 - 2 - 28 - 6 - 10 d. 12 - 26 - 2 - 28 - 8 - 10

14. If SUNDAY is coded as 012345 and BIG is coded as 678, how would you encode SANDBAY?

- a. 0234456 b. 0423645
c. 0432645 d. 0342456

15. 18 is related to 45 in the same way as 20 is related to _____:

- a. 50
c. 38
- b. 42
d. 35

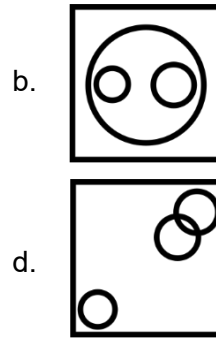
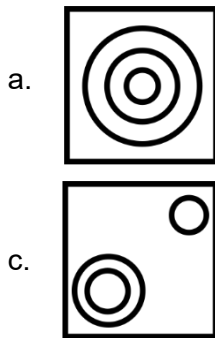
16. Which one of the following words will come fourth in the dictionary?

Propriety, Proposition, Prosecute, Proposal, Prosody

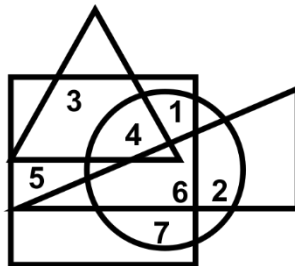
- a. Proposition b. Prosody
c. Proposal d. Prosecute

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17. Choose from the given four option figures, the one that best illustrates the relationship among three classes:
Minutes, Days, Months

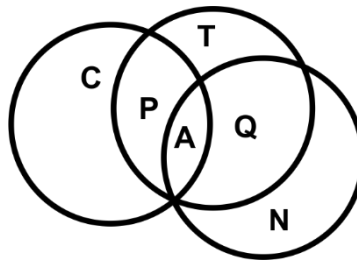


18. Which number is present only in one figure?



- a. 1
b. 3
c. 5
d. 7

19. Among the 60 students of class VIII, some like cricket very much, some tennis and some volleyball. In the diagram, some letters are given to indicate the liking. Which one indicates that some liked all the three games?



- a. Q
b. A
c. P
d. C

20. Harry walks 1.5 km towards North. He then turns left and walks 5.5 km. He again turns left and walks 1.5 km. Further, he moves 3.5 km after turning to the right. How far is he from his original position and in which direction is he facing?

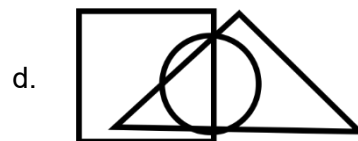
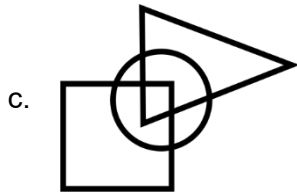
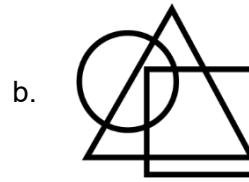
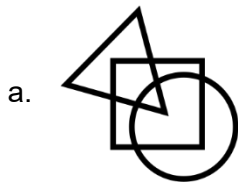
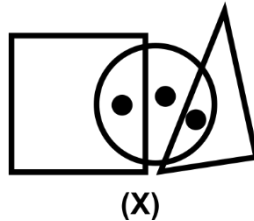
- a. 9 km, East
b. 9 km, West
c. 5.5 km, West
d. 5.5 km, East

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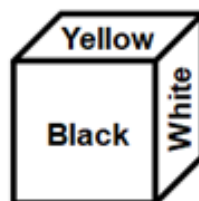
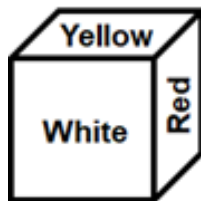
21. Andrew left his village and drove North for 20 km, after which he stopped for breakfast. Then he turned left and drove another 30 km when he stopped for lunch. After some rest, he again turned left and drove 20 km before stopping for evening tea. Once more he turned left and drove 30 km to reach 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:

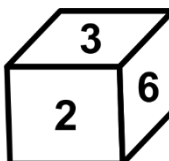
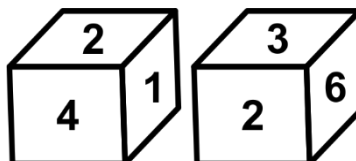


23. From the following two different appearances of dice, find out the colour which is opposite to Red:



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

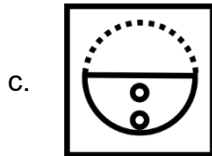
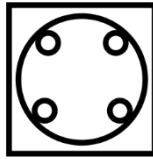
24. Two positions of a dice are as given below. What will be the number at the bottom, if 5 is at the top?



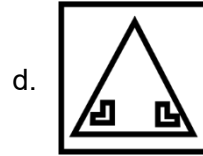
- a. 1
- b. 2
- c. 3
- d. 6

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25. A circular sheet of paper is folded in a particular manner and a punch is made. When unfolded, the paper appears as given in the question figure. Find out the manner in which the paper is folded and punch is made from the responses given:



26. A triangular piece of paper is folded and cut as shown below. Find out from the answer figures how it will appear when opened:



27. Three words are given in the following question, which has something in common among themselves. Out of four given alternatives, choose the most appropriate description of these three words:

Mamb : Krait : Viper

- a. They are insects. b. They are haunting spirits.
c. These are boot polishes. d. These are snakes.

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28. Peter correctly remembers that his father's birthday is before 20th January but after 16th January whereas his sister correctly remembers that their father's birthday is after 18th January but before 23rd January. On which date in January is definitely their father's birthday?

- a. 18th
 - b. 19th
 - c. 20th
 - 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'.

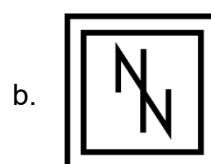
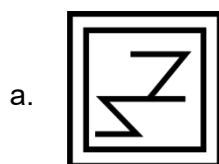
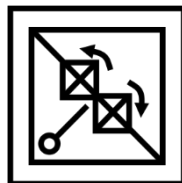
What does 'P = R ÷ Q' mean?

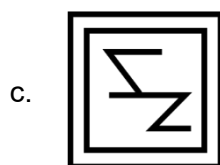
- a. P is the aunt of Q
 - b. Q is the daughter of P
 - c. P is the sister of Q
 - d. Q is the niece of P
-

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

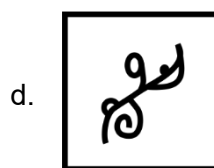
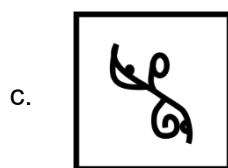
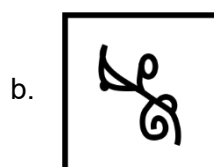
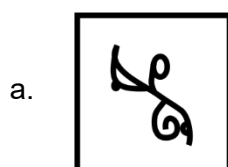
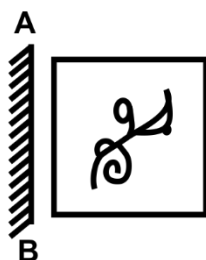
- a. Tuesday
 - b. Wednesday
 - c. Thursday
 - d. Friday
-

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





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	?
---	---	---	---	---	---	----	---

- 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

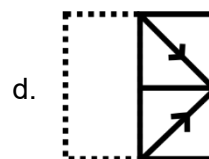
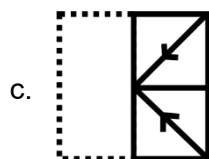
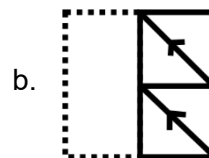
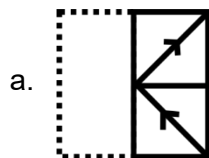
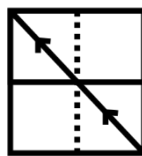
37. 'Talk' is related to 'Speak'. Similarly, 'Honest' is related to 'Truthful'. Following the same logic, 'Listen' is related to:

- a. Music
c. Hear
- b. Ears
d. Sound

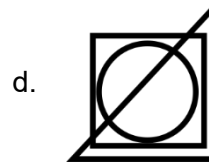
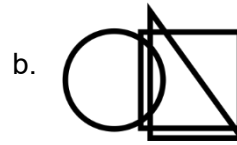
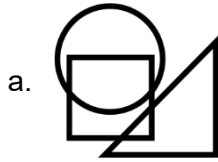
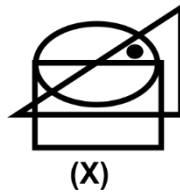
38. If + means \times , \times means \div , \div means + and \div means \times , then $15 - 3 + 10 \times 5 \div 5 = ?$

- 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.

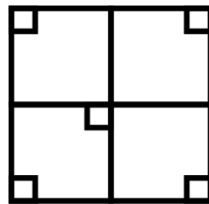


40. In the following question, from amongst the figures, select the one which satisfies the same conditions of placement of the dot as in fig. (X).



Scholar Section (Each Question is 2 Marks)

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



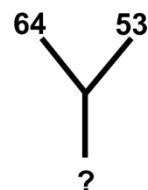
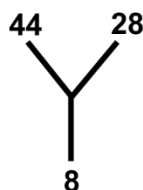
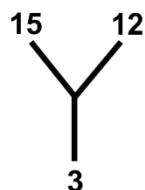
- a. 10
b. 12
c. 8
d. 14

42. Which number will replace the question mark?

6	7	8
10	16	22
8	?	6

- a. 7
b. 10
c. 14
d. 12

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



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- a. 12
- c. 70

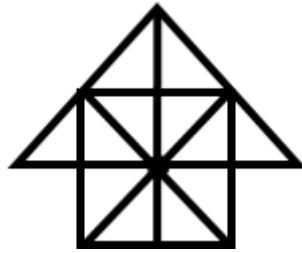
- b. 13
- d. 117

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
- c. Brother

- b. Son
- d. Nephew

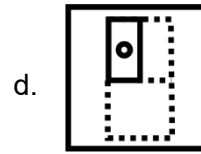
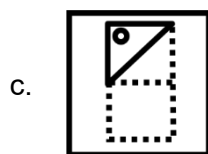
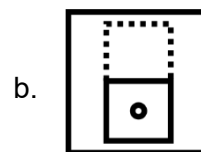
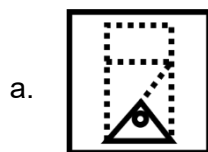
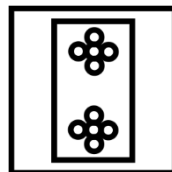
45. Study the given figure and count the number of triangles and squares in the given figure:



- a. 27 triangles, 5 squares
- c. 27 triangles, 6 squares

- b. 28 triangles, 5 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:



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.

- 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												