



UNICUS OLYMPIADS

Sample Paper

Class 7

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

Classic Section (Each Question is 1 Mark)

1. If '%' means 'x', '#' means '÷', '&' means '+' and '@' means '-', then what will be the result of 12 @ 4 & 8 % 2?

- a. 16
- b. 24
- c. 32
- d. 12

2. Harry started walking towards the south from point A. After walking 8 metres, he reached point B from where he turned towards his left and walked 10 metres ahead to reach point C. From point C he turned towards his right and walked 6 metres ahead to reach point D. In which direction is he facing now?

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

3. If 'Q + R' means 'Q is mother of R', 'Q ÷ R' means 'Q is brother of R', 'Q × R' means 'Q is husband of R', 'Q – R' means 'Q is sister of R', then how is A related to B, if it is given that B + C ÷ D × A?

- a. Mother-in-law
- b. Aunt
- c. Daughter-in-law
- d. Sister-in-law

4. If 'Q + R' means 'Q is mother of R', 'Q ÷ R' means 'Q is brother of R', 'Q × R' means 'Q is husband of R', 'Q – R' means 'Q is sister of R', then how is C related to D, if it is given that A + C + B × D?

- a. Mother-in-law
- b. Aunt
- c. Sister-in-law
- d. Cannot be determined

5. Select the figure which satisfies the same conditions of placement of the dots as in the Fig. (i):

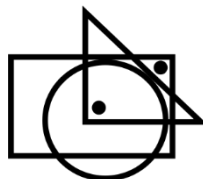
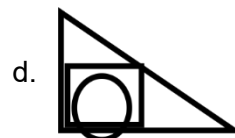
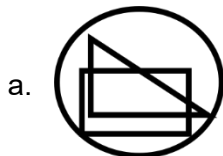


Fig (i)



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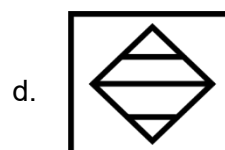
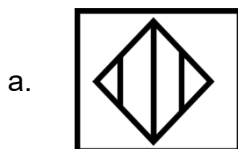
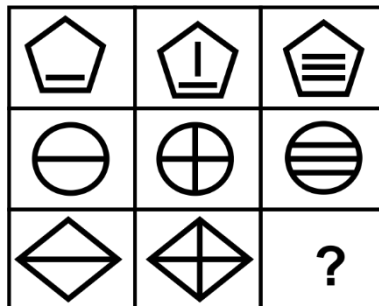
6. How many such pairs of letters are there in the word "DELETE" which has as many letters between them as there are in the English alphabetical series?
- a. One
b. Two
c. Three
d. None

7. If 'P' means 'x', 'Q' means '+', 'R' means '-' and 'S' means '÷', then which of the following statements will be correct?
- a. $4 P 3 S 16 R 4 = 10$
b. $15 P 2 S 8 Q 2 = 25$
c. $4 P 3 S 8 Q 2 R 2 = 10$
d. $17 S 4 Q 4 R 2 = 20$

8. Which of the following element is sixth to the right of the twelfth from the right end of the below arrangement?
- % K 6 J U 5 % Y @ 3 T R 7 S A € 7 E G 8 U & 3 M # N 5 @ P 3 A 3 2 L
- a. 3
b. P
c. @
d. 5

9. Find the next element of the following series:
14, 22, 34, 50, 70, ?
- a. 100
b. 94
c. 80
d. 96

10. Select a suitable figure from the four alternatives that would complete the given figure matrix:



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11. Complete the following series by inserting the missing character:
W, S, O, K, ?

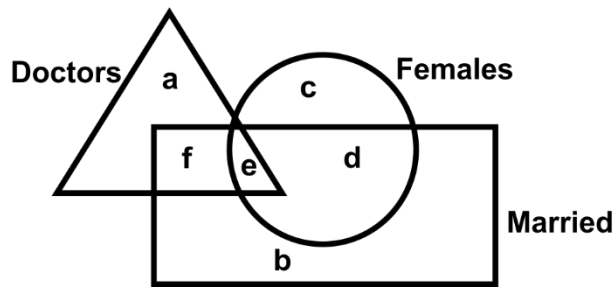
- a. G b. H
c. I d. J
-

12. Which of the following will be the correct mirror image of the given figure, when the mirror is placed vertically to the right?

DED249RS

- a. **DED249RS** b. **ƆƆƆ249RS**
c. **ƆƆƆ249RS** d. **SR942DED**
-

13. In the following figure, triangle represents doctor, oval represents females and rectangle represents married persons. Then which part of the figure represents female doctors who are married?

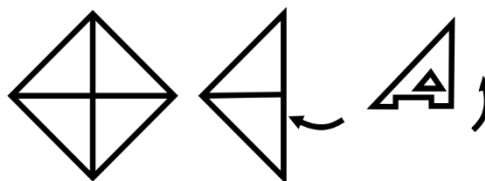


- a. f b. e
c. a + f d. a
-

14. In a certain code, RECALL is written as SFDBMM, BRIGHT is written as CSJHIU, then DECIDE will be written as:

- a. FEDJEF b. DEFJEF
c. FEJDFE d. EFDJEF
-

15. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



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16. In the given series, which set of letters, when sequentially placed at the gaps in the same order, shall form a repetitive pattern?

C_BB_CC_B_BC

- a. CBBC
c. CBCB
- b. CCBB
d. BBCC
-

17. Three words are given in the following question, which have something in common among themselves. Out of four given alternatives, choose the most appropriate option which is similar to these three words:

Bleat : Howl : Gibber

- a. Grunt
c. Stuck
- b. Leap
d. Duck
-

18. In the following question, there is a certain relationship between two given words on one side of (::). Find the word on the other side so that the second pair has a similar relationship with the first pair:

17 : 54 :: ? : 15

- a. 7
c. 4
- b. 8
d. 5
-

19. In the following question, some groups of letters are given, all of which except one, share a common similarity while one is different. Select the odd one:

- a. NKHE
c. KHEB
- b. MIDA
d. WTQN
-

20. In the following question, four options are given. Out of these three are alike in a particular way but the remaining one is different. Find the odd one from the given options which is different from others:

- a. 4
c. 225
- b. 64
d. 37
-

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21. If in a certain code, 'KAVERI', is written as 'VAKIRE'. How is 'MYSORE' written in that same code?

- | | |
|-----------|-----------|
| a. EROSYM | b. SYMROE |
| c. SYMEOR | d. SYMERO |

22. Read the following information carefully to answer the given question.

In a certain code language, 461 means 'where are you', 169 means 'you are good' and 8652 means 'flowers are not bad'.

What does 59 mean?

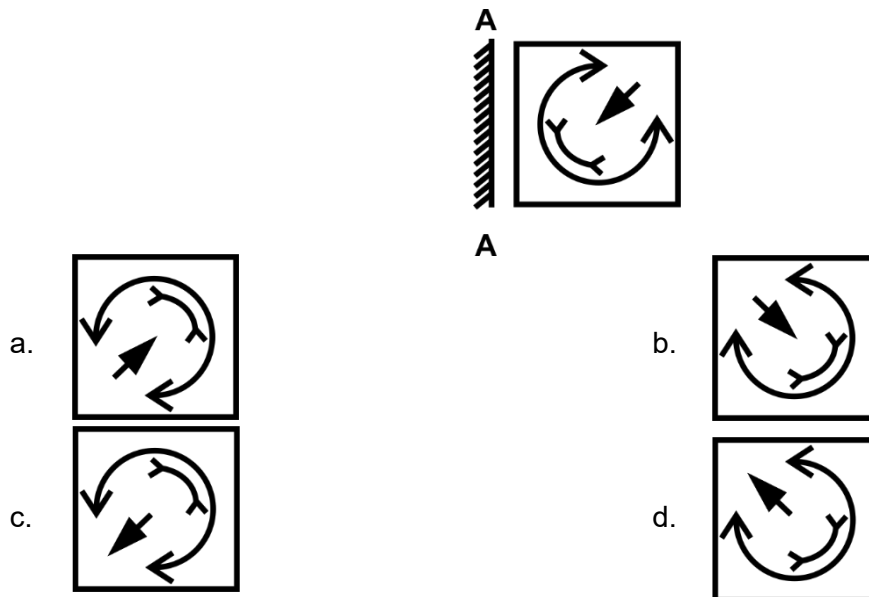
- | | |
|-------------|--------------------|
| a. not good | b. bad are |
| c. not bad | d. Data inadequate |

23. What comes in place of the question mark in the following letter series?

PRIMARILY, RIMARILY, RIMARIL, ?

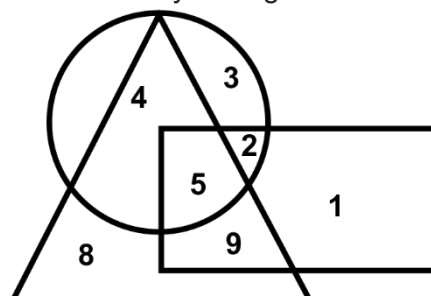
- | | |
|-----------|-----------|
| a. IMAR | b. RIMARI |
| c. IMARIL | d. RIMA |

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



25. Study the following diagram to answer the following question:

What are the numbers that lie inside any two figures?



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- a. 5, 1
- c. 8, 3

- b. 4, 3, 1
- d. 4, 9, 2

26. Q is the son of P. X is the daughter of Q. R is the aunt of X and L is the son of R, then what is L's relation with P?

- a. Grandson
- c. Daughter

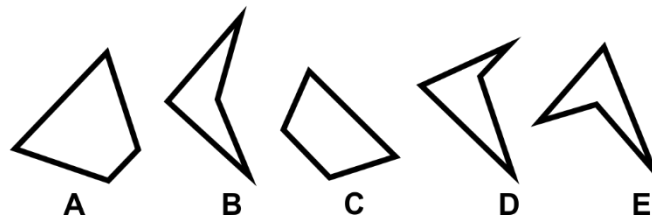
- b. Granddaughter
- d. Nephew

27. If the day before yesterday was Wednesday, when will Sunday be?

- a. Today
- c. Day after tomorrow

- b. Tomorrow
- d. Two days after tomorrow

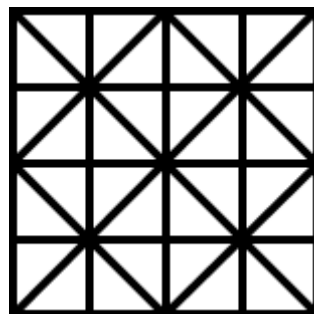
28. In the following question, five figures are given. Out of them, find the three figures that can be joined to form a square:



- a. ABD
- c. BCE

- b. BCD
- d. CDE

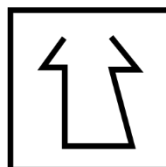
29. Find out the number of squares in the given pattern.



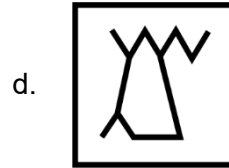
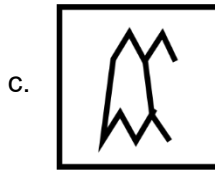
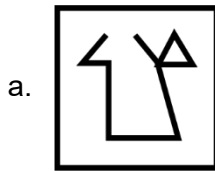
- a. 26
- c. 35

- b. 30
- d. 38

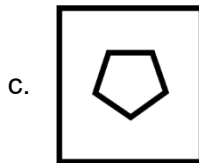
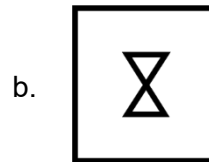
30. In the following question, find the answer figure in which question figure is embedded:



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31. In the following question, find the answer figure which is a part of the question figure:



32. Read the following information carefully and answer the question given below:

A cube is painted red on two adjacent surfaces and black on the surfaces opposite to red surfaces and green on the remaining faces. Now, the cube is cut into 64 smaller cubes of equal size.

How many smaller cubes have no face coloured?

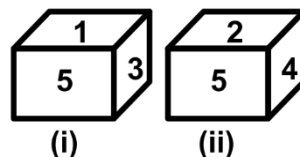
a. 24

b. 16

c. 8

d. 10

33. From the given two positions of a single dice, find the digit at the face opposite to the face having digit 4:



a. 1

b. 2

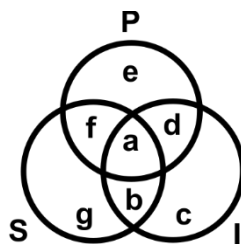
c. 3

d. 4

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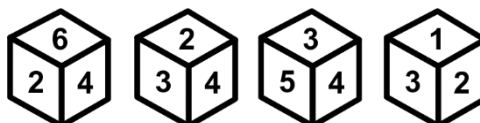
34. If 'X' is the wife of 'Y', 'Y' is the brother of 'Z' and 'P' is the father of 'Z', then how is 'P' related to 'X'?
- a. Aunt
b. Brother
c. Father-in-law
d. Sister

35. 'P' stands for a set of politicians.
'I' stands for a set of Indians.
'S' stands for a set of Scientists.
Which sort of people are represented by 'a'?



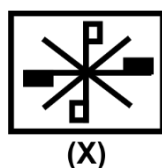
- a. Only politicians
b. Politicians as well as Indians
c. Indian Politicians who are scientists
d. Only Scientists

36. A dice is thrown four times and its four different positions are shown below. Find the number on the face opposite the face showing 2:



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

37. In the following question, choose the correct water image of Fig. (X) from amongst the four alternatives (a), (b), (c) and (d):



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

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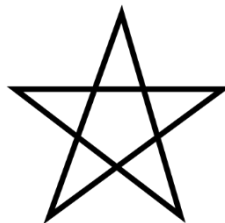
38. There is a certain relation between two given words on one side of :: and one word is given on another side of :: while another word is to be found from the given alternatives, having the same relation with this word as the given pair has. Select the best alternative:
Errata : Books :: Flaws : ?

- | | |
|----------------|------------|
| a. Manuscripts | b. Metals |
| c. Speech | d. Charter |

39. Two buses start from the opposite points of a main road, 150 km apart. The first bus runs for 25 km and takes a right turn and then runs for 15 km. It then turns left and runs for another 25 km and takes the direction back to reach the main road. In the meantime, due to a minor breakdown, the other bus has run only 35 km along the main road. What would be the distance between the two buses at this point?

- | | |
|----------|----------|
| a. 65 km | b. 75 km |
| c. 80 km | d. 85 km |

40. Find the number of triangles in the given figure:



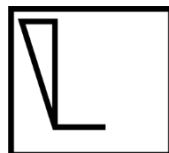
- | | |
|------|-------|
| a. 5 | b. 6 |
| c. 8 | d. 10 |

Scholar Section (Each Question is 2 Marks)

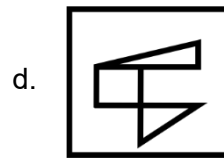
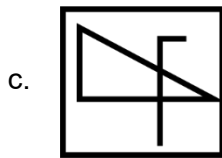
41. In a certain code, SILVER is written as RHKUDQ, the GOLD will be written as:

- | | |
|---------|---------|
| a. FNKC | b. NCKF |
| c. FNCK | d. FCNK |

42. Find out the alternative figure which contains the given figure as its part:



- | | |
|----|----|
| a. | b. |
|----|----|



43. How many meaningful words of four letters can be formed by using the second, third, fifth and seventh letter of the word "Solution", using each letter only once?

- | | |
|----------|---------|
| a. Two | b. One |
| c. Three | d. None |

44. Six girls namely, Bili, Bety, Sita, Kity, Sia and Kim were born in six different months of the same year starting from January to June. Bety was born in March. Bety and Bili were born in consecutive months. Sita is older than Kim. Sita and Kim were born in the months which have 30 days. Kity is younger than Sia.

Who among the following was born in June?

- | | |
|--------|---------|
| a. Kim | b. Kity |
| c. Sia | d. Sita |

45. In the following question, all the equations except one have been solved according to a certain rule. You are required to solve the unsolved equation following the same rule and to choose the correct answer out of the given options:

If $5 * 6 * 7 = 789$, $4 * 2 * 5 = 647$, $5 * 1 * 7 = 739$, then $3 * 6 * 2 = ?$

- | | |
|--------|--------|
| a. 584 | b. 484 |
| c. 251 | d. 473 |

46. In the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Select the correct alternative:

a _ cacbc _ baca _ _ b

- | | |
|---------|---------|
| a. baba | b. babc |
| c. abab | d. cacb |

47. In the question below, is given a statement 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 KLM company has decided to go for tax-free and taxable bonds to raise its resources.

Assumptions-

- I. The KLM company has already explored other sources to raise money.
- II. The products of KLM company have little competition in the market.

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- a. Only assumption I is implicit
 - b. Only assumption II is implicit
 - c. Either assumption I or assumption II is implicit
 - d. Both assumption I and assumption II are implicit
-

48. In the question given below, there is a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement:

Statement- Unemployment is one of the main reasons for the poverty of the country.

Conclusions-

- I. To end poverty, it is required to create employment opportunities.
 - II. All the people in the country are unemployed.
-
- a. Only conclusion I follows
 - b. Only conclusion II follows
 - c. Either conclusion I or conclusion II follows
 - d. Neither conclusion I nor conclusion II follows
-

49. Ron starts from his house and goes 15 m North, then he turns his right and walks 30 m before taking a right turn and moving again up to 30 m to reach a temple. In which direction is the temple with respect to Ron's house?

- a. North-west
 - b. South
 - c. South-east
 - d. West
-

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

There are six students Jacky, Kate, Leo, Monica, Harry and Peter. Jacky and Kate belong to Pam Palace and the rest belong to Norah Palace. Monica and Peter are tall while other students are short. Jacky, Kate and Monica are identified by wearing jeans while others are wearing caps.

Which short student of Norah Palace is wearing a cap?

- a. Peter
- b. Kate
- c. Monica
- d. Harry

Answer Key

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