UNICUS OLYMPIADS

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Sample Paper

Class 6

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. Sam travelled from a point X straight to point Y at a distance of 90 metres. He turned right and walked 60 metres, then again turned right and walked 70 metres. Finally, he turned right and walked 60 metres. How far is he from the starting point?

a. 17 metres
b. 18 metres
c. 19 metres
d. 20 metres

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2. If A is to the North of B and C is to the East of B, in what direction is A with respect to C?

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

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3. If PLANET is coded as QMBOFU, then how BETTER will be coded in the same language?

a. RETEBE
b. DFTURE
c. CFUUFS
d. ETTERB

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4. Which one of the following responses is the correct order of words as per dictionary?

1. Host
2. Resident
3. Harmony
4. Raise

a. 3142
b. 2143
c. 1342
d. 4132

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5. Which one will be the correct sequence of the given words in the meaningful order?

1. Frog
2. Grass
3. Snake
4. Grasshopper

a. 1432
b. 3421
c. 2413
d. 4321

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

a. Bark
b. Trumpet
c. Howl
d. Bray

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7. In the following question, two words are given which are related to each other in a particular manner and you have to find the word from the given alternatives which bears the same relationship to the third word, as the first two bears:
'Bull' is related to 'Cow' in the same way as 'Horse' is related to:

a. Animal
b. Mare
c. Stable
d. Ment

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8. If it is possible to make only one meaningful word with the 3rd, 4th, 8th and 9th letters of the word 'CENTURIES', which would be the 2nd letter of the word from the left? If more than one such word can be formed or no such word can be formed then give 'A' as the answer:

a. A
b. N
c. T
d. E

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9. Read the following information carefully to answer the question that follows:
In a certain code language, 461 means 'where are you', 169 means 'you are good' and 8652 means 'flowers are not bad'.
How will 'where not are good flowers' be written in coded language?

a. 68954
b. 46598
c. 45698
d. Data inadequate

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10. If 1st January 2007 was Monday, then what day of the week lies on 1st January 2008?

a. Monday
b. Tuesday
c. Wednesday
d. Sunday

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11. 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 ones:

a. CDFE
b. JKLM
c. STVU
d. WXZY

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12. In a certain code language, 'COMPUTRONE' is written as 'PMOCTUENOR'. How is 'ADVANTAGES' written in that same code?

a. ADVANSEGAS
b. ADVTANSEAG
c. ABDANTAGES
d. AVDATNSEGA

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13. Sara is taller than Alice, Jack is shorter than Peter but taller than Sara. Who is the tallest among them?

a. Sara
b. Jack
c. Alice
d. Peter

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14. India is related to Pakistan. In the same way, USA is related to:

a. Russia
b. UK
c. North Korea
d. Mexico

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15. In a cricket tournament four teams viz. KKR, RR, DC and KIP qualified for the semifinals. Each of these team played 10 matches. There is no such team which won all of their matches.

DC and RR won even number of matches.
The team which won 4 matches did not qualify for the semifinals.
RR won less matches than DC.
KKR and KIP won less matches than RR.

How many matches did KKR win?

a. 7
b. 5
c. 6
d. 9

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16. In a certain code language, “APPLE” is written as “ELPPA”, “SEPARG” is written as “GRAPES”. Then “MANGO” will be written as:

a. OGNAM
b. OGMAN
c. GANMO
d. ONGAM

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17. How many such pairs of letters are there in the word - "REMIND" which has as many letters between them as there are in the English alphabet series?

a. 0
b. 1
c. 2
d. 3

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18. Find the missing number in the following series:
132, 121, 110, 99, ?

a. 87
b. 81
c. 88
d. 86

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19. Six girls viz. Amelia, Olivia, Emily, Ana, Ria and Jessica are sitting in a straight row, but not necessarily in the same order. They all are facing towards north.
Four girls are sitting between Emily and Ana.
One girl is sitting between Ana and Ria.
Olivia sits second to the left of Ria.
Amelia and Ana are not immediate neighbours.

How many girls are sitting between Amelia and Ana?

a. One
b. Two
c. Three
d. Four

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20. Select the next term of the following series:
B, E, H, K, ?

a. N
b. M
c. O
d. P

---

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

a.
b.
c.
d.

---

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

a.
b.
c.
d.

---

23. In a certain code, DIVISION is written as ND8, BEFORE is written as EB6. How will REMIND be written in that code?

a. RD7
b. DR7
c. DR6
d. ED7

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24. Select the missing number in the following series:
16, 26, 46, 76, ?

a. 116
b. 96
c. 86
d. 106

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25. Point A is to the west of point C. Point D is to the east of point C. Point B is to the south of point D. Point A is to the north of point E. Distance between point A and D is same as the distance between point B and E. Then in which direction is point E with respect to point B?

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

---

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

a.
b.
c.
d.

---

27. Select the related word from the given alternatives:
Snake : Mouse :: Goat : ?

a. Lion
b. Grass
c. Milk
d. Cow

---

28. Which of the following words can be formed by using the letters of the word- "CRUSHING"?

a. Cure
b. Inch
c. Hang
d. Rub

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29. Select the related word from the given alternatives:
Apple : Fruit :: Whale : ?

a. Blue
b. Mammal
c. Ocean
d. Hunt

---

30. Out of the four options given below, three are of a kind while one does not belong to the group. Choose the one which is unlike the others:

a. Potato
b. Brinjal
c. Tomato
d. Cauliflower

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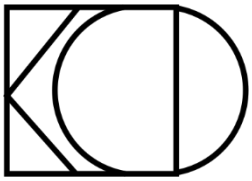
31. Which of the following sets of alphabets are embedded in the following figure?



a. LNCVZ
b. KCDL
c. KCOB
d. LVXT

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32. If day after tomorrow is Sunday, then what day of the week was it on day before yesterday?

a. Wednesday
b. Friday
c. Saturday
d. Monday

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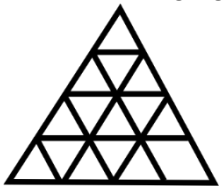
33. How many straight lines are there in the following figure?



a. 9
b. 11
c. 15
d. 48

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34. Jackson started walking towards north. After walking 50 metres he turned 90 degrees in the clockwise direction and moved 30 metres ahead. After this, he again turned 90 degrees in the clockwise direction. In which direction is he facing now?

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

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35. A clock is kept horizontally on a table in such a way that at 12 PM, its hour hand points towards south-east. In which direction will the hour's hand be pointing at 9 AM?

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

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36. Study the following information and answer the question that follows:

i. Kevin, George and Harry are intelligent.
ii. Kevin, Ron and Jacky are hard-working.
iii. Ron, Harry and Jacky are honest.
iv. Kevin, George and Jacky are ambitious.

Which of the following persons is neither honest nor hard-working but is ambitious?

a. Kevin
b. George
c. Ron
d. Harry

---

37. Arrange the given words in alphabetical order and select the one that comes at the second place:

a. Signature
b. Significance
c. Sight
d. Sigh

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38. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series:
1, 5, 13, 25, 41, ?

a. 51
b. 57
c. 61
d. 63

---

39. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series:
1, 4, 10, 22, 46, ?

a. 64
b. 86
c. 94
d. 122

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40. In the following question, arrange the given words in a meaningful sequence and then choose the most appropriate sequence from amongst the alternatives provided:

1. Site
2. Plan
3. Rent
4. Money
5. Building
6. Construction

a. 1, 2, 3, 6, 5, 4
b. 2, 3, 6, 5, 1, 4
c. 3, 4, 2, 6, 5, 1
d. 4, 1, 2, 6, 5, 3

Scholar Section (Each Question is 2 Marks)

41. Starting from a point P, Susan walked 20 metres towards North. He turned left and walked 30 metres. He then turned left and walked 20 metres. She again turned left and walked 60 metres and reached a point Q. How far and in which direction is the point Q from the point P?

a. 30 m West
b. 30 m East
c. 10 m North
d. 8 m South

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42. If it is possible to make only one meaningful word with the 3rd, 7th, 8th and 10th letters of the word 'COMPATIBILITY', which of the following would be the last letter of that word? If no such word can be made or if more than one such word can be formed, give 'X' as your answer:

a. I
b. B
c. L
d. X

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43. In the following question, there is a certain relationship between the two given numbers on one side of (::) and one number is given on another side of (::) where another number is to be found from the given alternatives, having the same relationship with this number as the numbers of the given pair bear. Choose the best alternatives:
7544 : 5322 :: 4673 : ?

a. 2367
b. 2451
c. 2531
d. 4472

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44. Read the following information carefully to answer the question that follows:
There are six students Jacky, Kate, Ella, Poppy, James, Sophia. Jacky and Kate belong to William Palace and the rest belong to Oscar Palace. Poppy and Sophia are tall while other students are short. Jacky, Kate, and Poppy are identified by wearing jeans while others are wearing caps.
Which two students are not wearing jeans and are short?

a. Ella and James
b. Kate and James
c. Jacky and James
d. Kate and Sophia

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

a.

b.

c.

d.

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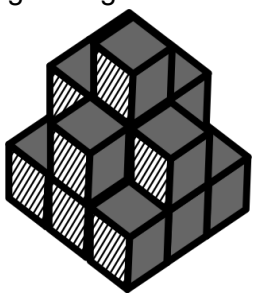
46. Count the number of cubes in the given figure:



a. 8
b. 9
c. 12
d. 15

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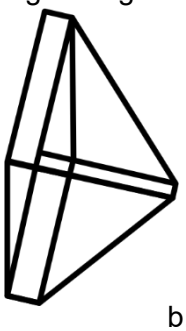
47. How many rectangles are there in the given figure?



a. 8
b. 7
c. 5
d. 6

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48. There are five friends viz. Harrison, Jenny, Bob, Maizie and Steven. Each of them was born in a different month of the same year starting from January to May but not necessarily in the same order.

Neither Maizie nor Jenny was born in a month which has 31 days.
Maizie is older than Jenny.
Maizie is younger than Harrison.
Bob is older than Steven.

Who among the following is the youngest?

a. Jenny
b. Bob
c. Steven
d. Cannot be determined

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49. There are six friends viz. Kim, Joy, Ali, Richard, Bill and Ray. Each of them likes a different colour viz. Red, Green, Pink, Blue, Black and Orange but not necessarily in the same order.

Joy likes blue.
Bill does not like green.
Kim neither likes black nor green.
Ray neither likes pink nor green.
Ray does not like orange. Bill and Ray do not like red. Richard likes Orange.

Who among the following likes Red?

a. Kim
b. Ray
c. Ali
d. Richard

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50. In a certain code language, “HEAR” is written as “$#@&”, “FEST” is written as “€#*%”. Then “SHEAR” will be written as:

a. *$#@&
b. *$#@$
c. *$#@€
d. *$#$€

Answer Key

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