## (Olympiad Comprehensive Question)

### **QUESTIONS**

### 1. What do you mean by natural numbers?

- (a) Counting numbers (b) Negative numbers
- (c) Whole numbers
- (e) None of these

## (d) All of these

### 2. What is the difference between smallest natural and whole number?

(a) 0	(b) 1
(c) 2	(d) 3

(e) 4

### 3. Name the number indicated in the following place value chart.

Period	Trillions		Billions		Millions		Thousands		Ones						
Places	Hundred Trillions	Ten Trillions	Trillions	Hundred billions	Ten billions	Billions	Hundred millions	Ten millions	Millions	Hundred thousandth	Ten thousands	Thousands	Hundreds	Tens	Ones
	5	3	6	9	4	2	3	1	0	0	3	3	1	2	5

(a) Fifty three trillion six hundred ninety four billion two hundred thirty one million thirty three thousands one hundred twenty five

(b) Five hundred thirty six trillion nine hundred forty two billion three hundred ten million thirty three thousands one hundred twenty five

(c) Five trillion three hundred sixty nine billion four hundred twenty three million thirty three thousands one hundred twenty five

(d) Five hundred thirty six trillion nine hundred forty two billion two hundred thirty one million one hundred thirty three thousand one hundred twenty five

(e) None of these

4. Name the number, indicated in the Indian place value chart, as per the international system of numeration.

Period	Kha	arab	Ar	ab	Cro	ores	Lal	khs	Thou	sands		Ones	
Places	Ten Kharab (T-kh) 100000000000	Kharab (kh) 10000000000	Ten Arab (T-A) 1000000000	Arab (A) 100000000	Ten Crores (T-C) 10000000	Crores (C) 10000000	Ten Lakhs (T-L) 1000000	Lakhs (L) 100000	Ten thousands (T-TH) 10000	Thousands (TH) 1000	Hundred (H) 100	Tens (T) 10	Ones (0) 0
	1	0	5	6	4	3	6	4	0	3	1	4	4

(a) One trillion fifty six billion four hundred thirty six million four hundred three thousands one hundred forty four

(b) One hundred five trillion six billion four hundred thirty six million four hundred three thousands one hundred forty four

(c) Ten trillion fifty six billion four hundred thirty six million four hundred three thousands one hundred forty four

(d) One hundred five billion six hundred forty three million four hundred three thousands one hundred forty four

(e) None of these

# 5. Name the number, indicated in the International place value chart, as per the Indian system of numeration.

Period	Trillions			Billions			N	Millions		Thousands		ds	Ones		
Places	Hundred Trillions	Ten Trillions	Trillions	Hundred billions	Ten billions	Billions	Hundred millions	Ten millions	Millions	Hundred thousandth	Ten thousands	Thousands	Hundreds	Tens	Ones
	0	0	8	0	2	4	5	1	5	6	4	2	1	0	7

(a) Eight kharab twenty four arab fifty crore fifty six lakh forty two thousand one hundred seven

(b) Eighty kharab twenty four arab fifty one crore fifty six lakh forty two thousand one hundred seven

(c) Eighty kharab twenty four arab fifty six crore fifty one lakh forty two thousands one hundred seven

(d) Eight kharab twenty four arab fifty one crore fifty one crore fifty one lakh forty two thousand one hundred seven

(e) None of these

### 6. Find the place value of 6 in the numeral which is 5453445565 more than 64445563230.

(a) 600000000

(b) 000000000

- (c) 6000000000 (d) 6000000000
- (e) None of these

7.	Find the successor of the numb	per which is equal to the product of 4354565 and 5798.
	(a) 25247767869	(b) 25247767870
	(c) 25247767871	(d) 25247767872
	(e) None of these	
8.	Steve has 3 million and 4 hun	dred thousand rupees. What is the worth of his money as per Indian
	system of numeration?	
	(a) 30 lakhs	(b) 31 lakhs
	(c) 32 lakhs	(d) 34 lakhs
	(e) None of these	
9.	In the number 2, 75, 465, what	t is the difference between the place value of 5?
	(a) 4999	(b) 4998
	(c) 4995	(d) 4875
	(e) None of these	
10.	Find the predecessor of the nun	nber which is 454412 less than X. X is the seven digit smallest number.
	(a) 545587	(b) 545588
	(c) 545589	(d) 545590
	(e) None of these	
11.	Which one of the following is	the successor of two hundred five trillion seventy six billion three
	hundred six billion three hundr	red six million five thousands twenty three?
	(a) 205760306005024	(b) 250076306005024
	(c) 205076306050024	(d) 205076306005024
	(e) None of these	
12.	Name the period which is just a	right to the period "Arabs" in the Indian place value chart.
	(a) Kharabs	(b) Lakhs
	(c) Crores	(d) Thousands
	(e) None of these	
13.	In the Indian place value chart,	, which one of the following periods has been split into three places?
	(a) Ones	(b) Thousands
	(c) Lakhs	(d) Crores
	(e) None of these	

- 14. When a numeral is written as per the International system of numeration, the digit 5 is at the ten billions place in the numeral. What will be the place of the digit, if the numeral is written according to Indian system of numeration?
  - (a) Arabs (b) Ten-arabs
  - (c) Kharabs (d) Ten-kharabs
  - (e) None of these
- 15. Name the number, indicated in the Indian place value chart, as per the International system of numeration.

Period	Kha	arab	Ar	ab	Cro	res	Lal	khs	Thou	sands		Ones	
Places	Ten Kharab (T-kh) 100000000000	Kharab (kh) 100000000000	Ten Arab (T-A) 1000000000	Arab (A) 100000000	Ten Crores (T-C) 10000000	Crores (C) 10000000	Ten Lakhs (T-L) 1000000	Lakhs (L) 100000	Ten Thousands (T-TH) 10000	Thousands (TH) 1000	Hundred (H) 100	Tens (T) 10	Ones (0) 0
	2	5	4	5	4	0	0	2	4	5	6	5	1

(a) Two trillion fifty four billion five hundred forty million two hundred forty five thousand six hundred fifty one

(b) Twenty five billion four hundred fifty four million two hundred forty five thousand six hundred fifty one

(c) Two trillion five hundred forty five billion four hundred million two hundred forty five thousand six hundred fifty one

(d) Twenty five trillion four hundred fifty four billion two hundred forty five thousand six hundred fifty one

(e) None of these

# 16. Which one of the following is the correct number for 700000000 + 50000000 + 800000 + 600 + 9?

(a) 7500800609

(b) 7508000609(d) 7500806009

- (c) 7500080609
- (e) None of these

## 17. Name the number, indicated in the International place value chart, as per the Indian system of numeration.

Period	Trillion			Billions			N	lillion	s	Thousands			Ones		
Places	Hundred Trillions	Ten Trillions	Trillions	Hundred Billions	Ten Billions	Billions	Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten thousands	Thousands	Hundred	Tens	Ones
	0	0	3	6	9	8	0	0	4	0	5	6	4	5	0

- (a) Thirty six kharab ninety eight arab four lakh fifty six thousand four hundred fifty
- (b) Thirty six kharab ninety eight arab forty lakh fifty six thousand four hundred fifty
- (c) Three kharab sixty nine arab eighty crore forty lakh fifty six thousand four hundred fifty
- (d) Thirty six arab ninety eight crore forty lakh fifty six thousand four hundred fifty
- (e) None of these

#### 18. Which one of the following is not a member of natural numbers.

- (a) 0
- (b) 10000000000000000
- (c) 9999999999999999999
- (d) 11111111111111111111
- (e) None of these

### 19. Write the number nineteen trillion seven hundred thirty five million eight hundred in expanded form.

- (a) 10000000000 + 900000000 + 70000000 + 3000000 + 500000 + 800
- (b) 100000000000 + 90000000000 + 700000000 + 3000000 + 5000000 + 800
- (c) 100000000000 + 90000000000 + 70000000 + 30000000 + 5000000 + 800
- (d) 100000000000 + 90000000000 + 700000000 + 3000000 + 50000 + 800
- (e) None of these

## 20. X represents the five digit greatest number and Y represents 6 digit greatest number. Find the sum of X and Y.

- (a) 1009998(b) 1099999(c) 1999998(d) 1099998
- (e) None of these

21. Find the place value of 6 in the numeral which is 6456565 more than 97885665495.

(a) Sixty	(b) Sixty Thousand
(c) Sixty Lakh	(d) Sixty Crore

(e) None of these

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## 22. X is a natural number. When X is divided by 5, it gives the quotient 4998521. Find the successor of

(a) 24992604	(b) 24992605
(c) 24992606	(d) 24992607
(d) None of these	

23.	<b>28084</b> $\times$ <b>391</b> = <b>Z09X0XYY</b> . Find the value of X, Y, and Z and arrange the following in descending order:									
	XYZZXYX, XXYZXZZ, XXZYY	YY, XXYXZZX, XXXYYYZ								
	(a) XYZZXYX > XXYZXZZ > XX	ZYYYY > XXYXZZX > XXXYYYZ								
	(b) XXXYYYZ > XXYXZZX > XX	XYZXZZ > XYZZXYX > XXZYYYY								
	(c) XXXYYYZ > XXYXZZX > XXYZXZZ > XXZYYYY > XYZZXYX									
	(d) XXXYYYZ > XXYZXZZ > XXYXZZX > XXZYYYY > XYZZXYX									
	(d) None of these									
24.	When 7 is multiplied by 10000000, we get the place value of 7 in a numeral. Which one of the									
	following places does 7 occur	by in the numerals?								
	(a) Ten Millions	(b) Hundred Millions								
	(c) Billions	(d) Hundred Billions								
	(d) None of these									
25.	Find the predecessor of the n	umber which is the product of 656 and 3659879.								
	(a) 2400880623	(b) 2400880624								
	(c) 2400880625	(d) 2400880626								
	(e) None of these									
26.	Write the Roman numeral wh	ich is 565 less than 1000.								
	(a) CDXXXV	(b) DCXXV								
	(c) CDXXLV	(d) DCXXLV								
	(e) None of these									
27.	Where should C be placed in	the Roman numeral CMXIX, so that it will represent 999?								
	(a) Left to the M	(b) Right to the M								
	(c) Left to the I	(d) Right to the I								
	(d) None of these									
28.	Write the Roman numeral for	the number which is equal to the product of 25 and 27.								
	(a) CDXXV	(b) DCXXV								
	(c) DCLXXV	(d) DCXLXV								
	(e) None of these									
29.	Choose the invalid Roman nu	meral from the following.								
	(a) LXXXVI	(b) CCLXXXIX								
	(c) CDII	(d) LXXXIIV								
	(e) None of these									

30.	Using the letters 0, 1, 5 make the greatest 3 digit number without repeating the digits and write it in								
	Roman numeral.								
	(a) CX	(b) DX							
	(c) CM	(d) DM							
	(e) None of these								
31.	Write the Roman numeral for	the number which is 453 more than three digit smallest number.							
	(a) DLIII	(b) CMDLIII							
	(c) MCDXLIII	(d) MCCCCXLIII							
	(e) None of these								
32.	Where should we place C in t	he numeral LXXIV, such that the numeral represents 174?							
	(a) Left to the X	(b) Right to the V							
	(c) Left to the L	(d) Between L and X							
	(e) None of these								
33.	Which one of the following Ro	oman symbols is used for 500?							
	(a) L	(b) X							
	(c) D	(d) C							
	(e) None of these								
34.	If a bar is placed over a Roma	an numeral, by how much the value of the numeral will increase?							
	(a) 100 times	(b) 10 times							
	(c) 1000 times	(d) 10000 times							
	(e) None of these								
35.	P is a natural number which	is equal to the difference between 3 digit greatest and the smallest							
	number. Write the Roman nu	meral for P.							
	(a) DCCCXCIX	(b) DCCCLCIX							
	(c) CCMXCIX	(d) CMCXCIX							
	(e) None of these								
36.	A = 654, B = 234, C = 246.	Write the roman numeral for $2(A+B) - C$ .							
	(a) MDXXV	(b) MDVXX							
	(c) MCXXX	(d) MDXXX							
	(e) None of these								

# 37. Which one of the following symbols should be added to the Roman Numeral MXC such that it represents 1100?

(a) M	(b) X
(c) C	(d) All of these
(e) None of these	

38. Which one of the following Roman numeral represents the Hindu-Arabic numeral which 246 more than the sum of 549 and 400?

(a) MCLXXXXV	(b) MCDXXXV
(c) MCXCV	(d) MCXXV
(e) None of these	

### **39**. Which one of the following Roman Numerals is not valid?

(a) MLXXII	(b) MCXXXIV
(c) MCXCVI	(d) MCLCVIII

(e) None of these

### 40. Match the following:

(a)	MXCVI	(i)	1220
(b)	MCLVIII	(ii)	1096
(c)	MCCXX	(iii)	1344
(d)	MCCLXXXII	(iv)	1158
(e)	MCCCXLIV	(v)	1282

- (a) a-ii, b-iv, c-i, d-iii, e-v
- (b) a-ii, b-iv, c-i, d-v, e-iii
- (c) a-ii, b-i, c-vi, d-v, e-iii
- (d) a-i, b-iv, c-ii, d-v, e-iii
- (e) None of these

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