



Jraining for Professional Competence

Number system, HCF & LCM, Factorials, Permutations & combinations & Mensuration

_	-	-	-			
Q1. Which	one of the follow	wing is the lea	ast number of	four digits	divisible by 71	?
(a) 1006	(b) 1065	(c) 1	094 (0	l) 1056		
Q2. How ma	nny numbers up	to 500 are d	visible by 23?			
(a) 23	(b) 27	(c)	21	(d) 19		
Q3. The LCM number is:	1 of two numbe	rs is 864 and	their HCF i <mark>s</mark> 1	44. If one	of the number	is 288, the other
(a) 576	(b) 1296	(c) 43	2 (d) 144		
	meter of a square ircumference of				_	10 cm and breadth 4 cm. square?
(a) 46 cm	(b) 36 d	em	(c) 38 cm		(d) 23 <mark>cm</mark>	
Q5. Which of	the following nu	ımbers is not o	livisible by 14?			
(a) 3542	(b) 2086	(c)	1998	(d) 2996		
Q6. The num	ber of zeros at th	e end of 60! is				
(a) 10	(b) 12	(c) 14	(d) 16	-/		
Q7. What is	the are of an ed	quilateral tria	ngle of side 16	6 cm?		
(a) 48√3 cm	2 (b) 128 _V	⁷ 3 cm2	(c) 9.6√3 cm	2 (d)	64√3 c <mark>m2</mark>	(e) None of these
_	n of the two digi its digits, the re				subtracted fro	m the number obtained
(a) 34	(b) 28	(c) 12	(d) 17		
Q9. The area	a of a triangle w	ill be when a	= 1m, b = 2m,	c = 3m, a,	b, c being leng	gths of respective sides.
(a) 0 sq m	(b) 3 sq r	n (c) 2 sq m	(d) 6 s	q m	
Q10. The sm	nallest number b	y which 66 mu	st be multiplie	d to make tl	he result divisibl	e by 18 is
(a) 3	(b) 6	(c) 9	(d) 18			
Q11. How ma	=			9 (both 400	0 and 4999 incl	uded) having at least one
(a) 216	(b) 356	(c)	496	(d) 504		
Q12. Which	of the following	g numbers wi	ll completely	divide (4 ⁶¹	+ 4 ⁶² + 4 ⁶³ + 4 ⁶⁴)?
(a) 3	(b) 10	(c) 11	(d) 13			





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Q13. What is	the highest p	ower of 12	that divides	54!?			
(a) 25	(b) 26	(c) 30	(d) 4				
Q14. The side between the s	_			/5 and Its peri	meter is 155 cm	, what is the differen	ce
(a) 100 cm	(b) 60 cr	n	(c) 45 cm	(d) 90	cm		
Q15. Two alar together at no			_			conds. If they beep	
(a) 12:15	(b) 12:3	80	(c) 12:31	(d) Non	e of these		
Q16. If a and I	o be positive ir	itegers such	that $a^2 - b^2 = 1$	19, then the va	lue of a is		
(a) 7	(b) 8	(c) 9	(d) ·	10			
Q17. Given a	^2 = b^2 of whi	ch of the fol	lowing is true?	,			
(a) a > b	(b) a < b	(c) Eith	ner a > b or a	< b or equal	(d) <mark>a=b</mark>		
Q18. In how n people can ge			kets be distrib	uted among 4	diffe <mark>rent p</mark> eople	e if all of the four diffe	erent
(a) 6C4	(b) 6P4		(c) 4^6		(d) 6 [^] 4		
-			-	_	<mark>nin</mark> utes <mark>, 1 h</mark> our, 3 ney will ag <mark>ain</mark> bee	s/2 hour and 1 hour 4 ep together at:	5
(a) 12 midnig	ht (b) 3	3 a.m	(c) 6 a	.m	(d) 9 a.m		
Q20. (27 ² /4 ⁻³)	^{5/6} = ?						
(a) 1/1296	(b) 1/4665	6 (c) 1	/7256	(d) <mark>1/</mark> 7776	(e) None	of theses	
Q21. The sum numbers is:	of two numbe	ers is 22. Five	e times one nu	ımber is equa	l to 6 times the o	ther. The bigger of th	e two
(a) 10	(b) 12	(c) 15	(d)	16			
Q22. The sum	of the digits o	f a two-digit	number is 12.	. The differenc	e of the digits is	6. Find the number?	
(a) 93	(b) 39	(c) 75	(d) 48	(e) Eith	ner (a) or (b)		
Q23. Find the	e remainder v	vhen 9797 i	s divided by	10?			
(a) 1	(b) 7	(c) 9	(d	0 (
Q24. Find the	greatest numb	oer which le	aves the same	remainder wl	nen it divides 25,	, 57 and 105.	
(a) 18	(h) 8	(c) 12	(d) 16	(e) None o	f these	



(a) 9

(b) 6



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Q25. A rope of graze?	which a calf is tie	d is increased fron	n 12 m to 23 m, h	ow much additional gr	assy ground shall it
(a) 1120 m²	(b) 1250 m ²	(c) 1210 m ²	(d) 120	00 m²	
Q26. How man	y three letter wor	ds are formed usin	g the letters of th	e word TIME?	
(a) 12	(b) 20	(c) 16	(d) 24	(e) 30	
•		s has to be formed articular ladies are	1 1 1 7 7 1	I 5 gentlemen. In how i in the delegation?	many ways the
(a) 20	(b) 54	(c) 42	(d) 60	(e) 40	
Q28. (64 + 9 +	9) / (2 * 20 + 1) = 1	?			
(a) 1	(b) 3/2	(c) 2	(d) 5/2	(e) 3	
Q29. The numb last is	per of sequences	in which 7 players	can thro <mark>w a ba</mark> ll,	so that the youngest p	layer may not be the
(a) 4000	(b) 2160	(c) 4320	(d) 5 <mark>300</mark>	(e) 4160	
Q30. The ratio	of the volumes	of a cube to that	of the sphere w	hi <mark>ch will</mark> fit inside the	e cube is?
(a) 4:3	(b) 4:2	(c) 4:4	(d) 6: 1		
Q31. How man and 3.84 meter		per's of whole squa	are slabs are r <mark>equ</mark>	ired for paving the floo	or 12.96 meters long
(a) 216	(b) 192	(c) 108	(d <mark>) 256</mark>		
Q32. In how m	nany different wa	ays can letters of	the <mark>word</mark> "PRAIS	S <mark>E" be arranged</mark> ?	
(a) 720	(b) 610	(c) 360	(d) 210	(e) None of t	these
-	per of 5 digit num	bers which are divi	sible by 4, with di	gits from the set {1,2,3	3,4,5} and the
(a) 125	(b) 250	(c) 625	(d) No	ne of these	
largest side of t	he right-angled tr		than the length c	side of a square of peri of the rectangle of area	
(a) 20 cm	(b) 12 cm	(c) 10 c	em (d	l) 13 cm	
	e 2 numbers which n y+x is divided by		6 leave a remain	der of 4 and 5 respecti	ively. what will be the

(d) 3

(c) 1





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Q36. The length of a rectangle is 3/5th of the side of a square. The radius of a circle is equal to the side of the square. The circumference of the circle is 132 cm. What is the area of the rectangle, if the breadth of the rectangle is 15 cm?

(a) 112 cm²

(b) 149 cm²

(c) 189 cm²

(d) 199 cm²

Q37. Find the remainder when 347^{347} is divided by 100?

(a) 12

(b) 13

(c)99

(d) 63

Q38. The product of two numbers is 1587. If the H.C.F. of these numbers is 23, then the greater number is:

(a) 23

(b) 115

(c)92

(d) None of these

Q39. Find the remainder when 7^777 is divided by 28?

(a) 1

(b) 7

(c) 26

(d) 27

Q40. Find the number of zeroes present at the end of 100!

(a) 10

(b) 20

(c) 24

(d) 50

Answer key

1	В	9	Α	17	С	25	С	33	С
2	С	10	Α	18	С	26	D	34	D
3	С	11	С	19	D	27	Α	35	D
4	В	12	Α	20	D	28	С	36	С
5	С	13	A	21	В	29	С	37	D
6	С	14	С	22	E	30	D	38	D
7	D	15	В	23	В	31	Α	39	В
8	В	16	D	24	D	32	Α	40	С

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