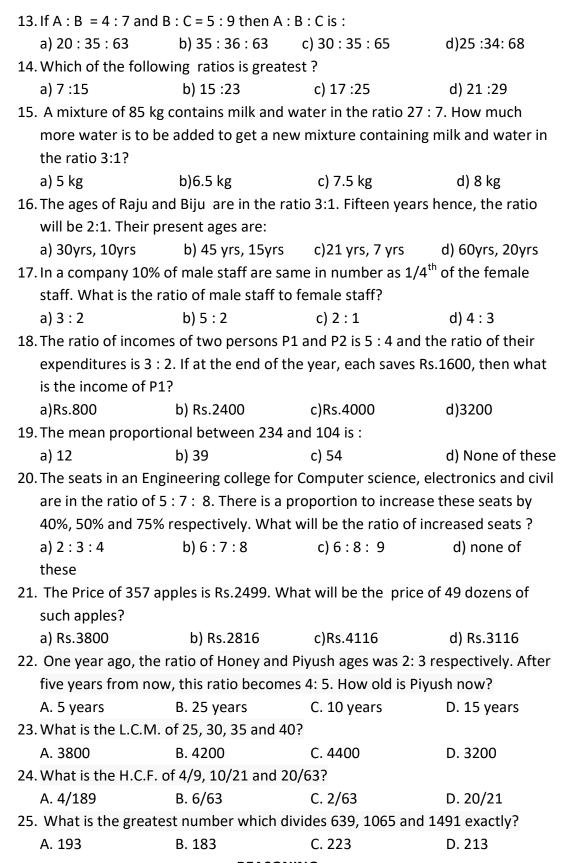
ADIDTYA DEGREE COLLEGES

ADAT-2025. MODEL PAPER FOR NON MATHS STUDENTS

ARITHMETIC

1.	22 - [9 - {6 - (10 -	$\overline{4-3}$)}]					
	a) 12	b) 14	c) 10	d) 8			
2.	$10^3 - 3^3 - 2^3/10^2 = ?$						
	A. 950.5	B. 972.92	C. 961.6	D. 960.4			
3.	37.5% of 800 – 6.25	% of 1600 =?					
	A. 200	B. 250	C. 275	D. 236			
4.	Solve $5\frac{1}{2} + 6\frac{1}{2} - 8\frac{1}{4}$						
	A. 2 $\frac{3}{4}$	B. $3\frac{3}{4}$	C. $2\frac{1}{4}$	D. None of these			
5.	What least number divisible by 23 ?	must be added to 10	056, so that the sum	is completely			
	A.2	B.3	C.18	D.21			
6.	The largest 4 digit n	umber exactly divisil	ole by 88 is:				
	A.9944	B.9768	C.9988	D.8888			
7.	What is the unit digit in $\{(6374)^{1793} \times (625)^{317} \times (341^{491})\}$?						
	A. 0	B.2	C.3	D. 5			
8.	The difference of two numbers is 1365. On dividing the larger number by the						
	smaller, we get 6 as	quotient and 15 as i	remainder. What is t	he smaller			
	number?						
	A.240	B.270	C.295 D	.360			
9.	If the number 517*	324 is completely div	visible by 9, then the	smallest whole			
	number in the place	e of * will be:					
	A.0	B.1	C.2	D. None of these.			
10.	The difference betw	veen the local value a	and the face value of	7 in the numeral			
	32675149 is						
	A.75142	B. 64851	C. 5149	D.69993			
11.	On dividing a numb	er by 56, we get 36 a	is remainder. On divi	ding the same			
	number by 8, what	will be the remainde	r?				
	A.4	B.5	C.6	0.7			
12.	•		er 3-digit number 984	to give a 4-digit			
	number 13b7, whic	h is divisible by 11. T	hen, (a + b) = ?				
	A.10	B.11	C.12	D.15			



26.	Look at	this se	ries: 8	8, 6, 9, 23	3, 87 , V	Vhat number	should co	me next?	
	A. 128			B. 226		C. 324		D. 429	
27.	Look a	t this se	eries:	8, 43, 11,	, 41,, 3	9, 17. What r	number sh	ould fill in tl	ne
	blank?								
	A. 8			B. 14		C. 43		D. 44	
28.	Look a	t this se	eries:	4, 7, 25,	10,, 20), 16, 19, W	hat numb	er should fil	l the
	blank?								
	A. 13			B. 15		C. 20		D. 28	
29.	Find th	ne missi	ng nı	ımber in t	the series	5?			
	4, 18, ?	, 100, 1	80, 2	94, 448					
	A. 48			B. 50		C. 58		D. 60	
30.	What s	hould c	ome	in place c	of questio	n mark (?) in	the follow	ing number	
	series?								
	132	156	?	210	240	272			
	A. 196	İ		B. 182		C. 199		D. 204	
31.	1, 2, 3	, 10, ?,	9802						
	A. 99			B. 199		C. 299		D. 999	
32.	What i	is the ne	ext nu	umber of	the follow	wing sequenc	e ?		
	21, 77,	165, 28	35,						
	A. 404			B. 415		C. 426		D. 437	
33.	8, 15,	28, 53,	?, 19	9					
	A. 101			B. 102		C. 103		D. 104	
34.	HT6	#E7\$	KILS	%3P@2	2 A J R U 4	1 * V D			
	What will come in place of the question mark(?) in the following series based								
	on the	above a	arran	gement?					
	T#6 7K	\$ L3%	?						
	A. @2			B. A@2		C. 2A@		D. None of	these
		IKMO :	: QSU	W:?					
	A. YZCE	В.		B. YACD	C.	C. YACED.		D. YBCE	
	AEFJ:	KOPT ::	? : Q	UVZ					
	A. GKLI)		B. GLKP		C. HKLP		D. HKQL	
	3:12:	:: 5 : ?							
	A. 25			B. 35		C. 30		D. 15	
38.	38. If "LESD" is written as " @ \$ & # " , "NAC" is written as " % ? * ", how								

"CANDLES" is coded in the same way?

	A) *&%#\$&)	B) *?%&@\$#	C)				
	*&^\$@() D) 1	?@\$@^%@&					
39.	In the following, a c	ertain code is given.	According to this cod	de, "before West			
	to mailing" is written as "ad mi ja no", "the West to Himalaya" is written as						
	"ku ja ig ad". Also "i	mailing of the layout	" is written as "be ku	zo mi" and "to			
	should of changes"	is written as "be li ya	ja".				
	Then what is the co	de for "should"?					
	A) be	B) Ii	C) ya	D) li or ya			
		MONKEY is written as					
	that code ?						
	A) SHFDQ	B) HFDSQ	C) RSAFD	D) QDFHS			
		729. How would J be	·	•			
	A) 216	B) 124	C) 512	D) 125			
			ŕ	ŕ			
		e, COULD is written a		N is written as			
		MOULDING be writte	n in that code ?				
	A) CHMFINTK	B) LNKTCHMF	C) LNTKCHMF	D) NITKHCMF			
43.	If wall is called window, window is called door, door is called floor, floor is						
	callled roof and roo	f is callled ventilator,	what will a person s	tand on ?			
	A) Window	B) Wall	C) Floor	D) Roof			
44.	In a certain coding language, iF GO = 32 & SHE = 49 then SOME will be equal						
	to?						
	A) 56	B) 58	C) 62	D) 64			
45.	If E = 5 and READ is	coded as 7, then wh	at is the code of 'DE	AR'?			
	A) 6	B) 7	C) 8	D) 9			
16	Pointing to a gentle	oman Doonak said "	His only brother is th	o father of my			
40.	Pointing to a gentleman, Deepak said, "His only brother is the father of my daughter's father", How is the gentleman related to Deepak?						
	A) Grand Father	B) Father	C) Brother-in-law	D) Uncle			
	,	•	•	,			
47.	Which should be the 7th letter to the right of 18th letter from the right, if second half of the alphabet is reversed?						
			C) I	D) V			
	A) X	B) W	C) L	D) V			
40.	Suresh, the son of Mahesh is married to Sia, whose sister Jia is married to Amar, the brother of Suresh. How is Jia related to Mahesh?						
				D) Sistor			
40	A) Daughter in law	B) Cousin	C) Sister in la	ŕ			
49.	. A class of boys stands in a single line, One boy is 19th in order from both the ends, How many boys are there in the class?						
	-			D) 30			
	A) 37	B) 39	C) 27	D) 38			

50. How many 5's are there in the following sequence. Which are immediately							
followed by 3 Bu	followed by 3 But not immediately preceded by 7?						
8 9, 5, 3, 2, 5, 3, 8	8 9, 5, 3, 2, 5, 3, 8, 5,5, 6, 8, 7, 3, 3, 5, 7,7, 5, 3, ,6,5, 3,3,5,7, 3,8						
A) 1	B) 2	C) 3	D) 4				
	ENGLISH						
51. Which of the giv	en below sentences is	correct?					
A)What is your d	ate of birth?						
B)What is your ag	ge?						
C)What is the dat	te of your birth?						
D)all the above a	re correct						
52. The house	two bed	rooms, a kitchen an	nd a living room				
A)consists	B)is consisting of	C)comprise	es of				
D)compris	es						
53. The Moon	at nights						
A)raises	B)is rising	C)rises	D)has raised				
54. Mr. David	live in Africa When	hea child.					
A) Must, was	B) Can, was	C) Used to, has be	en D) Used to, was				
55. If Mr. Anand	you, he co	mplete the work.					
A) were, can	B) Were, would	C) Was,would	D) Had been,				
would							
56she was co	ooking food, they wer	e watching TV that o	lay				
A) When	B) before	C) While	D) Beside				
57.1meet	you, if you come to co	ollege tomorrow.					
A) shall	B) could	C) will	D) must have				
58. She hard	now and then. Hence,	, we can say that she	is she meticulous.				
A) Worked	B) working	C) works	D) will work				
59. People	different food items of	on and off.					
A) eat	B) are eating	C) eats	D) is eating				
60. Phillips me	very well						
A) knows	B) is known for	C) has been know	n by D) None				
61. Rama Said, 'I am	very busy now'.						
A)Rama said I was very busy now							
B)Rama said that	he was very busy nov	V					
C)Rama said that	he was very busy						
D)Rama said to b	e busy then						
62. I did not speak ir	n French,?						

	A)did I	B)didn't l		C)don't l		D)do I	
63.	She never makes m	istakes,	?				
	A)will she	B)doesn't she	<u>)</u>	C)does she		D)is she	
64.	His boss insisted hin	ո comp	oleting	the work fast			
	A) for	B) to		C) on		D) at	
65.	A singer and doctor	last night	t				
	A) has passed away			B) had passed away			
	C) have passed away	У		D) passed away			
66.	After she her studies, she to Canada						
	A) Completed, had moved		B) had compl	eted,m	oved		
	C) had completed, had	ad moved		D) was comp	leting, ı	moved	
67.	If Ravindra some money, he more profits						
	A) invests, would ge			ested, will get			
	C) invested, would have gotten D) had invested, would have gotten						
68.	Sruthi always	But today s	he	silently			
	A) boosts, sits B) bo	osted, sitting	C) boo	sts, is sitting	D) will	boosts, will	sit
69.	Let's repair the TV s	set,?					
		B) Should we		C) Shall we		D) Did we	
70.	The stranger said to me, who are you?						
	A) The stranger asked me who I was						
	B) The stranger asked me that who I was						
	C) The stranger asked me who was I						
	D) The stranger asked me whether who was I						

Akbar had quarrelled with Birbal over something important and had asked him not to come to the palace again. Akbar started missing Birbal and wanted him back, but could not find out where he was. Akbar hit upon a plan. He sent a message to all the villages that wells have been selected to wed the royal well and so they had to bring the bride to the capital immediately.

The headmen of the various villages were alarmed at the impossible task and came rushing to the capital to apologise for their inability to move their wells. One man, Khaji, however, came to discuss the details of the wedding. Khaji wanted to know whether the marriage ceremony would be conducted in the traditional manner. Akbhar assured him that all the formalities would be observed. Khaji was happy and assured Akbar that he would bring the bride to the gates of the city. Khaji added that according to the tradition, the bridegroom was to meet the bride at the village gates and take her into they city. He also asked Akbar when was the commitment date from the bridegroom so that they could set out with the bridal

Akbar was happy to hear all this. He realized that such an intelligent idea could be thought

out only by the fertile 'brain of Birbal and told Khaji that he did not want the well but the man who gave the idea.

- 71. Why did Akbar decide to perform the marriage?
 - A) He wanted to know how marriages are performed.
 - B) He wanted to increase the water in his well.
 - C) He wanted to test the intelligence of village headmen.
 - D) He wanted to find out the whereabouts of Birbal.
- 72. Which of the following is not true in the context of the passage?
 - A) Birbal was the most intelligent man in Akbar's Kingdom
 - B) Khaji thought of the idea that the marriage of wells should be conducted in traditional manner.
 - C) Akbar enjoyed Birbal's company
 - D) The king's well was to be the bridegroom
- 73. Which of the following is true in the context of the passage?
 - A) Akbar quarrelled with others on small matters
 - B) Akbar ordered all the village headmen to find out about Birbal.
 - C) Every village headman did not react to akbar's proposal in the same way.
 - D) Khaji was to bring the bridegroom to the village gates.
- 74. Why did Akbar say that he did not want the well which Khaji was offering?
 - A) Akbar did not like Khaji's demands.
 - B) Akbar's intention behind his plan to perform the marriage was fulfilled.
 - C) There was not much water in the well.
 - D) Akbar knew that Birbal came disguised as Khaji.
- 75. Why did Khaji come to meet Akbar?
 - A) He wanted to know whether the marriage would be performed in a traditional manner.

- B) He wanted to know whether the bridegroom would come to his village gate to receive the bride.
- C) He wanted to know why Akbar thought of a marriage between wells.
- D) He wanted to know when the marriage ceremony was to be held.

ELEMENTARY MATHETICS

76. Roots of the equation $x^2 - 5x + 6 = 0$ is

77. Value of $\tan 30^0 =$

a)
$$\sqrt{3}$$

b)
$$\frac{1}{\sqrt{2}}$$

c)
$$\frac{1}{\sqrt{3}}$$

78. 1 + $tan^2 \theta$ =

a)
$$Cosec^2 \theta$$

b)
$$Cot^2\theta$$

c)
$$\sin^2 \theta$$

d)
$$Sec^2\theta$$

79. H.C.F of 24, 60

80. L.C.M of 12, 24, 48, 72 is

81. $\sqrt{5+2\sqrt{6}}$ =

a)
$$\sqrt{2} + \sqrt{3}$$

b)
$$\sqrt{5} + \sqrt{1}$$
 c) $\sqrt{2} - \sqrt{3}$

c)
$$\sqrt{2} - \sqrt{3}$$

 $\sqrt{3}-\sqrt{5}$

82.
$$f(x) = x + 2$$
, $g(x) = 3$ Then $(g \text{ of })(2) = _____$

a) 1

b) 2

c) 3

d) 4

83. Remainder when 21124 is Divided by 5

a) 0

b) 2

c) 3

d) 4

84. If $f = \{(a,1),(b,2),(c,3),(d,6)\}$ Then range of f is

a) $\{a, b, c, d\}$

b) {1,2,3,6}

c) R

d) N

85. If α , β are rots of x^2	$+x+1=0$ then 3 ($\alpha+\beta$)		
a) 3	b) 1	c) -3	d) $\frac{3}{2}$
86. 1 + 2 + 3 + 4 + 5 +	+ 100 =		
a) 5500	b) 10050	c) 5050	d) 10500
87. If the A.M. of 2 and	x is 5 then x =		
a) 8	b) $\frac{7}{2}$	c) 10	d) 3
88. If $A = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$ then	A ⁵ =		
a) 32	b)2	c) 14	d) - 32
89. A + B = $\begin{bmatrix} 7 & -2 \\ -8 & 3 \end{bmatrix}$	and $A - B = \begin{bmatrix} 3 & -4 \\ 2 & 9 \end{bmatrix}$ then	n A =	
a) $\begin{bmatrix} 5 & -3 \\ -3 & 6 \end{bmatrix}$	b) $\begin{bmatrix} 2 & 1 \\ -5 & -3 \end{bmatrix}$	c) $\begin{bmatrix} -2 & 3 \\ 1 & 4 \end{bmatrix}$	d)
$\begin{bmatrix} 10 & -6 \\ -6 & 12 \end{bmatrix}$	[, -]	[-]	
90. A student got 84, 91	1, 72, 68, 87, 78 marks in Si	ix Tests then Arithm	etic mean is
a) 72	b) 80	c) 68	d) 76
91. The median of 10, 1	2, 8, 7, 5, 6, 9, 8, 9 is		
a) 5	b) 6	c) 8	d) 7
92. If $A = \{1,2,3,6,8,10\}$ E	$3 = \{2,8,10\} \{1,2,6,11\}$ then A	$A \cap B \cap C = \underline{\hspace{1cm}}$	
a) {1,2,8,10}	b) {2}	c) {2,8}	d) {2,10}
93. The remainder whe	en $4x^2 - 8x + 3$ is divided	by x – 1 is	
a) 2	b) 3	c) 4	d) -1
94. If $\frac{x+y}{xy} = 5$, $\frac{x-y}{xy} = 7$	7 then y =		

	a) 12	b) 6	c) $\frac{1}{6}$	d) $\frac{1}{12}$
95.	If $2x + y = 35$, $3x + 4y$	= 65 then (x,y) =		
	a) 5, 15	b) 5, 10	c) 10, 5	d) 15, 5
96.	The length of an edg	e of a cute in 5 cm. Then its	total surface area is	
Sq.o	a) 25 Sq.cm cm	b) 100 Sq.cm	c) 150 Sq.cm	d) 125
97. I Hov		sons 75 can speak English a	nd 40 can speak Telu	gu. Then
	many persons can spe	eak both.		

b) 75

99. Product of the roots of the equation $2x^2 + 3x + 6 = 0$ is

b) 3

98. If Sec θ + tan $\theta = \frac{3}{5}$ then Sec θ - tan $\theta =$ _____

a) $\frac{8}{5}$ b) $\frac{5}{8}$

b) 3

c) 35

c) $\frac{5}{3}$

c) 6

c) $\frac{1}{2}$

d) 40

d) $\frac{2}{5}$

d) 12

d) $\frac{1}{\sqrt{2}}$

a) 15

a) 2

a) 0

100. $\lim_{x \to 0} \frac{\sqrt{1+x} - 1}{x} = \underline{\hspace{1cm}}$