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20 JANUARY 2019

Marks: 400	Time: 120 minutes		
ROLL NO.:	NAME:		
SIGNATURE:	DATE / TIME:		

	INSTRUCTIONS FOR THE CANDIDATES
1.	The question booklet contains English section (Q 1-40) and Mathematics Section (Q 41-100).
2.	Before attempting the paper carefully read all the Instructions & Examples given on Side 1 of Answer Sheet (OMR Sheet) supplied separately.
3.	At the start of the examination, please ensure that all pages of your Test booklet are properly printed; your Test booklet is not damaged in any manner and contains 100 questions. In case of any discrepancy the candidate should immediately report the matter to the invigilator for replacement of Test Booklet. No claim in this regard will be entertained at the later stage.
4.	An OMR Answer Sheet is being provided separately along with this Test booklet. Please fill up all relevant entries like Roll Number, Test Booklet Code etc. in the spaces provided on the OMR Answer Sheet and put your signature in the box provided for this purpose.
5.	Make sure to fill the correct Test booklet code on Side 2 of the OMR Answer Sheet. If the space for the Booklet Code is left blank or more than one booklet code is indicated therein, it will be deemed to be an incorrect booklet code & Answer Sheet will not be evaluated. The candidate himself will be solely responsible for all the consequences arising out of any error or omission in writing the test booklet code.
6.	This Test Booklet consists of 08 pages containing 100 questions. Against each question
	four alternative choices (1), (2), (3), (4) are given, out of which one is correct. Indicate your choice of answer by darkening the suitable circle with BLACK/BLUE pen in the OMR Answer Sheet supplied to you separately. Use of Pencil is strictly prohibited. More than one answer indicated against a question will be deemed as incorrect response.
7.	The maximum marks are 400. Each question carries four marks. There will be negative marking of minus one (-1) for each incorrect answer.
8.	Do not fold or make any stray marks on the OMR Answer Sheet. Any stray mark or smudge on the OMR Answer Sheet may be taken as wrong answer. Any damage to OMR Answer Sheet may result in disqualification of the candidate.
9.	On completion of the test, candidate must hand over the OMR Answer Sheet to the invigilator on duty in the room/hall. You may retain the Question Booklet.
10.	Use of Mobile phones, wrist watches and calculators etc. are not allowed.
11.	Keep all your belongings outside the Examination hall. Do not retain any paper except the ADMIT CARD.

	<u>SECTION – ENGLISH</u>
Dire	tions (Question 1 to 7). In these questions, out of the four alternatives, choose the one
whic	best expresses the meaning of the given word.
1	Discipline
4	(1) dictator (2) rigid (3) obedience (4) sincere
2	Honour
2	(1) important (2) rich (3) respect (4) mighty
3	Courage
0	(1) mystery (2) brave (3) strong (4) powerful
4	Swift
	(1) quick (2) car (3) noise (4) hasty
5	Terse
_	(1) sullen (2) brief (3) verbose (4) crying
6	Apprise
	(1) winner (2) trophy (3) curious (4) inform
7	Instill
D'	(1) lessen (2) induct (3) understand (4) introduce
	tions (Question 8 to 12). From the four options given, choose a word / phrase which is
simi	r in meaning to the under lined word in each sentence.
8	He is quite <u>meticulous</u> in his dealings with others. (1) in different (2) hought: (2) years coreful (4) recorrid
	(1) indifferent (2) haughty (3) very careful (4) reserved
9	We didn't believe his statements, but <u>subsequent</u> events proved that he was right. (1) cordion (2) from (2) for (3) for (3) for (3) between (3)
	(1) earlier (2) many (3) few (4) later
10	A bone got stuck in his <u>gullet</u> . (1) teeth (2) stomach (3) throat (4) chest
11	The treaty was <u><i>ratified</i></u> by the heads of state. (1) annulled (2) discussed (3) set aside (4) agreed to
12	He has suspended his secretary on <u><i>flimsy</i></u> grounds. (1) strong (2) fussy (3) funny (4) very weak
Dire	tions (Question 13 to 16). In these questions, out of the four alternatives, choose the one
	can be substituted for the given words/sentences.
	A ruler who has absolute authority.
13	(1) aristocratic (2) leader (3) dictator (4) president
	A person who is a good speaker.
14	(1) witty (2) orator (3) wise man (4) politician
	A person who is interested in and good at many different things.
15	(1) versatile (2) specialist (3) student (4) cadet
4.0	A person who believes that war should be abolished
16	(1) war mongerer (2) pacifist (3) abolitionist (4) activist
Dire	tions (Question 17 to 18). Find the correctly spelt word out of the four words given
17	(1) tomorow (2) tommorrow (3) tommorow (4) tomorrow
18	(1) believe (2) belive (3) beleive (4) beeleve
	tions (Question 19 to 23). Four alternatives are given for the idiom/phrase / word in italics
	sentence. Choose the one which best expresses the meaning of the idiom/phrase
	The disgruntled man <u>threw a spanner in the works</u>
19	(1) hit with a spanner (2) used his spanner with force
	(3) prevented the plan from succeeding (4) stopped working
	With his rash action he really <u>upset the apple cart</u>
20	(1) threw the apples away (2) broke the cart
	(3) spoil carefully laid plans (4) executed the plan immediately
21	The Louvre is <u>a</u> world's largest museum.
Z 1	(1) grand (2) one (3) only (4) the
	To forgive <u>the</u> injury is often considered a sign of weakness.

	(1) this (2) an (3) thus (4) only						
23	Science and Technology is enriched man's life.						
	(1) have (2) has (3) are (4) does						
	ctions (Question 24 to 27). Sentences are given with blanks to be filled in with an						
appr	opriate word(s). Choose the correct alternative out of the four.						
24	Effective speaking on effective listening.						
	(1) depend (2) depends (3) depended (4) depending						
25	They believe that logic no place in faith.						
	(1) have (2) had (3) having (4) has						
26	Concentration is by alertness.(1) helped(2) help(3) will help(4) helps						
	Don't let setbacks your determination to succeed.						
27	(1) effect $\overline{(2)}$ effected (3) affected (4) affect						
Dire	ctions (Question 28 to 29). Some of the sentences have errors and some have none. Find out						
-	h part (1), (2) or (3) of a sentence has an error. If there is no error mark your answer (4)						
28	(1) A hungry man becomes desperate (2) and his despair turns						
20	(3) in anger (4) no error						
29	(1) Complaints usually come (2) from those which are						
25	(3) inefficient or unhappy (4) no error						
Dire	ctions (Question 30 to 32). Reorder P,Q,R,S to make a meaningful sentence.						
30	P: detective story Q: go R: through the S: written below						
	(1) RPSQ (2) SQRP (3) QRPS (4) SPRQ						
31	P: real murderer Q: who the R: is S: find out						
	(1) PQRS(2) SQPR(3) QRPS(4) PSRQP: many cluesQ: there areR: pointing toS: the real culprit						
32	P: many clues Q: there are R: pointing to S: the real culprit						
D !	(1) QPRS (2) PSQR (3) QSPR (4) SPRQ						
	ctions (Question 33 to 40). In these questions, you have two brief passages with 4 questions						
	wing each passage. Read the passage carefully and choose the best answer out of the four natives.						
anci	PASSAGE – 1						
The	price of rudeness was more than Alice could bear. She got up in great disgust and walked off.						
	Dormouse fell asleep instantly and neither of the other took any notice of her going. She						
look	ed back once or twice half hoping that they would call after her but they didn't. The last time						
she	aw them, they were trying to put the Dormouse into the tea pot.						
	What did Alice do when she couldn't bear the price of rudeness?						
33	(1) she quarreled with others (2) she took up the matter with them						
	(3) she left the place in great disgust (4) she stayed put and did nothing						
~ ~	What was Dormouses response to Alice's walk out?						
34	(1) he instantly fell asleep (2) he pleaded Alice not to leave						
	(3) he too left with Alice (4) he went into the tea pot						
35	What were they doing when Alice last saw them?						
55	 (1) they fell asleep (2) they were trying to put the Dormouse into the tea pot (3) they left the place (4) they were taking tea 						
	The word 'disgust' means						
36	(1) revulsion (2) strong wind (3) hurry (4) anger						
	$\frac{(1) \text{ for unsion}}{PASSAGE - 2}$						
Rob	n Hood, surprised at the stranger's courage, started fighting in earnest, using his stick with						
	skill. He was very quick on his feet, and hit the giant with many quick blows. But the giant						
prov	ed to be equally skillful, though he was not as quick as Robin Hood. The two men, each						
-	g to knock the other down into the stream, fought hard and long. At last Robin Hood gave						
	a blow on the giant's knees that he fell into the stream. But before his fall, the stranger						
	succeeded in giving Robin Hood a blow on his head. Robin Hood reeled and fell into the stream						
	With great difficulty both the men reached the bank. The stranger was limping and he was in						
grea	great pain. But he did not lose courage. He once again got ready to fight.						

37 On being surprised at the stranger's courage, Robin Hood:

	 (1) started fighting vigorously (2) tried to make friends with the stranger (3) killed the stranger (4) gave up the idea of fighting 		
38	The giant fell into the stream as (1) he was lifted and thrown into the stream (3) he wanted to end the fight(2) he lost balance (4)Robin Hood gave a decisive blow on the giants knees		
39	Robin Hood too fell into the stream because(1) the stranger gave a blow on Robin Hoods head(2) he wanted to run away(3) the giant pushed him(4) he wanted to save himself		
40	Which of the statements is true(1) Robin Hood was scared of the giant(2) the giant was scared of Robin Hood(3) the stranger lost courage(4) the giant was as skillful as Robin Hood		

	<u>SECTION – MATHEMATICS</u>				
41	CANCELLED				
42	Among five friends, Lata, Alka, Rani, Asha and Sadhna, Lata is older than only three of her friends. Alka is younger to Asha & Lata. Rani is older than only Sadhna. Who amongst them is eldest?1) Asha2) Lata3) Alka4) Sadhna				
43	In $\triangle PQT$, PQ=PT. The points R & S are on QT such that PR=PS. If $\angle PTS = 62^{\circ}$, $\angle RPS = 34^{\circ}$ then the measure of $\angle QPR$ is? 1) 17° 2) 13° 3) 15° 4) 11°				
44	1) 17°2) 13°3) 15°4) 11°The point at which the two coordinates meet is called?1) Abscissa2) Ordinate3) Co-ordinate4) Origin				
45	If length of the rectangle is increased by 50% and breadth is decreased by 20%. Then, what is the percentage change in the area? 1) 20% decrease 2) 20% increase 3) 80% increase 4) None of the above				
46	Two candles are of different lengths and thickness. The short and long ones can burn respectively for 3.5 hours and 5 hours. After burning for 2 hours, the lengths of candles become equal in length. What fraction of the long candle's height was the short candle initially? 1) $\frac{2}{7}$ 2) $\frac{5}{7}$ 3) $\frac{3}{5}$ 4) $\frac{4}{5}$				
47	Mean of 11 observations is 17.50. If one observation 15 is deleted, find the mean of remaining observations.1) 17.52) 17.253) 17.754) None of these				
48	A number when divided by 143 leaves 31 as remainder. What will be the remainder when the same number is divided by 13?				
49	1) 02) 13) 34) 5Three equal circles of unit radius touch each other. Then, the area of the circle circumscribing the three circles is1) $\frac{\pi}{3}(2 + \sqrt{3})^2$ 2) $\frac{2\pi}{3}(2 + \sqrt{3})^2$ 3) $6\pi(2 + \sqrt{3})^2$ 4) $\frac{1\pi}{6}(2 + \sqrt{3})^2$ In Δ DEF and Δ PQR, it is given that $\angle D = \angle Q$; $\angle R = \angle E$, then which of the following is NOT				
50	true? $1)\frac{\text{EF}}{\text{PR}} = \frac{\text{DF}}{\text{PQ}} \qquad 2)\frac{\text{DE}}{\text{PQ}} = \frac{\text{EF}}{\text{RP}} \qquad 3)\frac{\text{DE}}{\text{QR}} = \frac{\text{DF}}{\text{PQ}} \qquad 4)\frac{\text{EF}}{\text{RP}} = \frac{\text{DE}}{\text{QR}}$				
51	\triangle ABC is an equilateral triangle of each side $2\sqrt{3}$ cm. P is any point in the interior of \triangle ABC. If x, y, z are the distances of P from sides of triangles, then x+y+z= 1) 2+ $\sqrt{3}$ 2) 5 cm 3) 3 cm 4) 4 cm				
52	The coordinates of the points P and Q are respectively (4, -3) and (-1, 7). Find the abscissa of a point R on the line segment PQ such that $\frac{PR}{PQ} = \frac{3}{5}$				

	1) 1	2) 0	3) -1	4) 2					
53	The arithmetic mean o of other three	f five numbers is -5.	If the sum of two of th	em is 50. What is the average					
55	1) 25	2) 10	3) -10	4) -25					
	A solid metal sphere of surface area S_1 is melted and recast into a number of smaller spheres same radius. S_2 is the sum of the surface areas of all the smaller spheres. Then								
54	1) $S_1 > S_2$	2) $S_2 > S_1$	$3) S_1 = S_2$	4) Data is insufficient					
	If the equation $(1 + m^2) x^2 + 2mcx + (c^2 - a^2) = 0$ has equal roots then $c^2 = ?$								
55	1) $a(1 + m^2)$	2) a(1 - m²)	3) $a^2(1 + m^2)$	4) $a^2(1 - m^2)$					
56	If P denotes "multipl denotes "divided by" t	hen 28B7P8T6M4=	?	A denotes "added to" and B					
	$\frac{1) - 3/2}{\text{Evoluting stoppedge}}$	$\frac{2) 30}{\text{the speed of a bus } i}$	$\frac{3) 32}{54 \text{ Kmph and included}}$	4) 34					
57	For how many minutes	-	-	ing stoppages, it is 45 Kmph.					
5/	1) 9	2) 10	3) 12	4) 20					
58	each circle touches ext	ternally two of the re		ar circles are drawn such that Let S be the area of the region imum value of S is					
	1) $x^2(1 - \pi)$	2) $x^2\left(\frac{4-\pi}{4}\right)$	3) $x^2(\pi - 1)$	4) $\frac{\pi}{4}$ x ²					
59	A natural number whe 1) 8	n increased by 12, ed 2) 6	qual to 160 times its rec 3) 10	ciprocal. Find the number 4) 9					
	The LCM of the two r	numbers is (x+y) and	HCF is p(x-y). if one	of the number is 'p' then the					
60	number is								
	1) p $\frac{x}{v}$	2) $x^2 - y^2$	3) pxy	4) $\frac{px + y}{px - y}$					
	A right angled triangle has hypotenuse of length p cm and one side of length q cm. if $p - q=1$;								
61	find the length of third								
	1) $\sqrt{2q^2 + 1}$	2) $\sqrt{2q} + 1$		4) $\sqrt{2q} - 1$					
62	The mean and mode of	f frequency distribut	ion are 28 and 16 respe	ectively. The median is					
	1) 22	2) 23.5	3) 24	4) 24.5					
		-	e against the stream as l of boat (in still water)	s to row the same distance in and the stream is					
63	1) 2:1	2) 3:1	3) 3:2	4) 4:3					
	-			of the number of men. In city					
64	Y, 10 men leave the bus and five women enter. Now, number of men and women is equal. In the beginning, how many passengers entered the bus?								
	1) 15	2) 30	3) 36	4) 45					
	If the roots of the equa	tion $ax^2+bx+c=0$ are	e equal then $c=?$	h ²					
65	1) - $\frac{b}{2a}$	2) $\frac{b}{2a}$	3) $-\frac{b^{2}}{4a}$	$4) \frac{b^2}{4a}$					
66	PQ is a tangent from $\angle POR=120^{\circ}$ then $\angle OI$		entre O and QOR is a	a diameter of circle such that					

	1) 30°	2) 60°	3) 45°	4) 90°				
	In a market, 20% opted for product A whereas 60% opted for product B. The remaining							
67				n those opted for prod	uct B and those who			
0,			y individuals were co	•				
-	1) 3600	2) 1440	3) 1800		Inadequate			
60			then value of a+b+c					
68	1) 77	2) 110	3) 58	4) 75				
69	and walked 1	0 m. He then again	turned to the right a In which direction he	g a distance of 25 m, l nd walked 15 m. After e is going now? h-west 4) Sout	this he is turn to his			
	-,	_) ~~~~~~	-)					
70	and that of su is the origina	5 Kg of tea and 8 Kg of sugar together cost Rs. 172.00. The price of the tea has risen by 20% and that of sugar by 10%. Hence the same quantity of tea and sugar now cost Rs. 199.20. What is the original price of tea per Kg?						
				$\frac{20}{\text{Kg}}$ 4) Rs. 1				
71			t surface of a cylind , then its volume (in	er is equal to 6 times cm ³) is?	the sum of the areas			
	1) 48π	2) 384π	3) 786π	4) 768 π	;			
	Datio of the	ana of a simila	and an aquilatanal	triangle whose diam	aton and a side and			
	respectively		and an equilateral	triangle whose diam	eter and a side are			
	respectively	equal to?						
72	π	π	π^2	π				
	1) $\frac{\pi}{3}$	$\frac{2}{6}$	3) $\frac{\pi^2}{3}$	4) $\frac{1}{\sqrt{3}}$				
-			5	• -				
70	If sin θ and c	os θ are roots of equ	ution $ax^2 + bx + c = 0$	then $b^2 - 2ac = ?$				
73	$(1) a^2$	2) h^2	3) a ²	(1) h^2				
					1 (D 000 (1 (1			
74		(2,-2), C(-2,t) are the	he vertices of a right	nt angled triangle wit	$n \ \angle B = 90^\circ$, then the			
74	value of t?							
	$\begin{array}{c} 1 \\ 0 \\ \end{array}$	$\frac{2)\frac{1}{2}}{2}$	3)2	4) 1 11 large for 1 (1 1)	aton of (11 1/			
75		neel makes 5000 re	volutions in moving	11 km. find the diam	leter of the wheel(in			
75	cm)?	2) 25 om	3) 140 cm	4) 105 cm				
	1) 70 cm	2) 35 cm	,	$\frac{4)\ 105\ \text{cm}}{\text{imbs}\ 3m\ \text{in one minu}}$	te and cline down by			
	A monkey is climbing a rope of length 100 m. He climbs 3m in one minute and slips down by 1 m in another one minute because of rope being slippery(it takes him completely one minute							
	time to slip down one meter). Now again he climbs 3m in one minute and in another one							
76	-	minute slips down one meter. This climbing and slipping continues till he reaches the top of						
	-	rope. How much times he takes to reach the top of the rope?						
	1) 100 min	2) 98 min 40 s	ec 3) 98 min 38 s	ec 4) none of above				
					raised upward at the			
	bottom.	What is the capacity of a cylindrical vessel with a hemispherical portion raised upward at the bottom.						
	1)	$\underline{\pi r^2}$ (3h-2r)	2) πr^{3} (2r-3h)					
77	Í	3	3					
	3)	$\underline{\pi r}$ (3h ² -2r)	4) πr^2 (3h-2r ²)					
		3	3					
		3	5					

78	smaller circle		•		ge circle is tangent to every to two small circles. What
	1) 1+ \sqrt{2}	2) 1+√ 3	3) $2+\sqrt{2}$	4) $2+2\sqrt{2}$	
79	of the two. I front?	if there are 50 perso	ons in the queue,	what position d	ehind & Asha is just middle oes Asha occupy from the
	1) 20 th	2) 19 th	3) 18 th	4) 17 th	
	The sum of				
80		$\frac{1}{x+b} = \frac{1}{c}$ is zero. The			
	1)0	2) $\frac{1}{2}$ (a+b)	3) $-\frac{1}{2}(a^2+b^2)$	4) 2(a²+	b²)
81	boys and the		ys is two-thirds o		nstitute three-fourths of the ers of students in the class,
				4) 2	
82	payment. Wh	at profit % does he r	nake?		s discount of 15% for cash
	$\frac{1112.5\%}{1112.5\%}$	$\frac{2110.3\%}{10.3\%}$	3) 11.370 A P is same as the	$\frac{49.3\%}{100}$	<i>n</i> terms, then the sum of its
83	first $(m+n)$ te			c sum of its mst	<i>n</i> terms, then the sum of its
83	1) 1		3) 0	$(4)\frac{1}{1}$	
	,	$\frac{2}{2}$	nding on the see	¹ / ₂	a boat coming towards him
84	takes 10 min boat to reach 1) 5 minutes	utes for the angle of the shore from the p 2) 10 minutes	depression to cha osition 3) 8 minutes	inge from 30° to	60°. Find the time taken by
	If $2x = \sec(t)$	$A_{x} = \frac{2}{x} = \tan A \text{ then } 2(x^2)$	$\frac{1}{1}$) –	1) 10 11	indeos
85	1 2x - 3cci	$x = \tan t \tan 2 x$	x^{2}) -	. 1	
	$1)\frac{1}{2}$	$(2)\frac{1}{4}$	$(3) - \frac{1}{8}$	$(4)\frac{1}{16}$	
86	Radha tell h polynomial x	er friend that her age $x^2+10x+24$. Find the a	ge in years is equipe of Radha (in y	years)	of squares of the zeroes of
	1) 52	2) 56		$\frac{4)46}{2000}$	is the distance travelled have
87		n the front wheel has			t is the distance travelled by he rear wheel?
07	1) 20 feet	2) 25 feet	3) 750 feet	4) 900	
		2,201000	5) 100 1000	/	
88		irst 100 natural numb	pers is divisible b	V	
00	1) 2, 4 and 8	irst 100 natural numb 2) 2 and 4	3) 2 only	4) None	e of these.
89	1) 2, 4 and 8 The square stratio of the b	2) 2 and 4 heet of paper is conv ase radius to the side	3) 2 only erted into a cylin of square?	4) None der by rolling it a	along its length. What is the
	1) 2, 4 and 8 The square stratio of the b	2) 2 and 4 heet of paper is conv ase radius to the side	3) 2 only erted into a cylin of square?	4) None der by rolling it a	along its length. What is the
	1) 2, 4 and 8 The square stratio of the b	2) 2 and 4 heet of paper is conv ase radius to the side	3) 2 only erted into a cylin of square?	4) None der by rolling it a	along its length. What is the
	1) 2, 4 and 8 The square stratio of the b	2) 2 and 4 heet of paper is conv ase radius to the side	3) 2 only erted into a cylin of square?	4) None der by rolling it a	e of these. along its length. What is the bectares of ground is?
89	1) 2, 4 and 8 The square siratio of the b 1) $\frac{1}{2\pi}$ In a shower, 1) 7.5 m ³	2) 2 and 4 heet of paper is conv ase radius to the side 2) $\frac{\sqrt{2}}{\pi}$ 5 cm of rain falls, th 2) 750 m ³	3) 2 only erted into a cylin of square? 3) $\frac{1}{\sqrt{2\pi}}$ e volume of wate 3) 7500 m ³	$\frac{4) \text{ None}}{4 \text{ der by rolling it a}}$ $\frac{4) \frac{1}{\pi}}{\pi}$ r that falls on 1.5	hectares of ground is?
89	1) 2, 4 and 8 The square siratio of the b 1) $\frac{1}{2\pi}$ In a shower, 1) 7.5 m ³ 50 men took displacement	2) 2 and 4 heet of paper is conv ase radius to the side 2) $\frac{\sqrt{2}}{\pi}$ 5 cm of rain falls, th 2) 750 m ³ a dip in a water tank c of water by a man is	3) 2 only erted into a cylin of square? 3) $\frac{1}{\sqrt{2\pi}}$ e volume of wate 3) 7500 m ³ 40 m long and 2 5 4 m ³ , then rise i	$\frac{4) \text{ None}}{4 \text{ der by rolling it a}}$ $\frac{4) \frac{1}{\pi}}{\pi}$ r that falls on 1.5 $\frac{4) 7500}{20 \text{ m broad on a r}}$ n water level of t	hectares of ground is? 00 m ³ religious day. If the average he tank will be?
89 90 91	1) 2, 4 and 8 The square sirratio of the b 1) $\frac{1}{2\pi}$ In a shower, 1) 7.5 m ³ 50 men took displacement 1) 20 cm A number is	2) 2 and 4 heet of paper is conv ase radius to the side 2) $\frac{\sqrt{2}}{\pi}$ 5 cm of rain falls, th 2) 750 m ³ a dip in a water tank t of water by a man is 2) 25 cm selected from first th	3) 2 only erted into a cylin of square? 3) $\frac{1}{\sqrt{2\pi}}$ e volume of wate 3) 7500 m ³ 40 m long and 2 5 4 m ³ , then rise i 3) 35 cm	4) None der by rolling it a 4) $\frac{1}{\pi}$ r that falls on 1.5 4) 7500 20 m broad on a r n water level of t 4) 50 cm	along its length. What is the $\frac{1}{1000}$ hectares of ground is? 1000000000000000000000000000000000000
89 90	1) 2, 4 and 8 The square siratio of the b 1) $\frac{1}{2\pi}$ In a shower, 1) 7.5 m ³ 50 men took displacement 1) 20 cm	2) 2 and 4 heet of paper is conv ase radius to the side 2) $\frac{\sqrt{2}}{\pi}$ 5 cm of rain falls, th 2) 750 m ³ a dip in a water tank t of water by a man is 2) 25 cm selected from first th	3) 2 only erted into a cylin of square? 3) $\frac{1}{\sqrt{2\pi}}$ e volume of wate 3) 7500 m ³ 40 m long and 2 5 4 m ³ , then rise i 3) 35 cm	4) None der by rolling it a 4) $\frac{1}{\pi}$ r that falls on 1.5 4) 7500 20 m broad on a r n water level of t 4) 50 cm	along its length. What is the hectares of ground is? $\frac{00 \text{ m}^3}{\text{religious day. If the average}}$ he tank will be?

93	The mean of first n odd natural numbers is $\frac{n^2}{81}$, then n is equal to?					
55	1) 9	2) 81	3) 27	01	4) 18	
		-	r, Akbar and A	Anthony is 80	years. What was the total of these	ages
94	three years ag	·				
	1) 71 years		3) 74 y		4) 77 years	
	Which of the	following state	ement is NOT	true?		
	1) A l	ine which inters	sects a circle i	n two points is	s called a secant of a circle.	
95	2) A l	ine intersecting	a circle at one	e point only, is	s called a tangent to the circle	
	3) The	e point at which	a line touche	s the circle, is	called the point of contact.	
					t inside the circle.	
	If both 11 ² an	d 3 ³ are factors	of the number	$r a \times 4^3 \times 6^2 \times$	13^{11} then what is the smallest pos	sible
96	value of a?					
	1) 121	2) 3267	3) 363	4) 33		
97			CA	NCELLEI)	
98	CANCELLED					
	What is the area of the sector covered by the hour hand after it was moved through 3 hours, the					s, the
99	length of the	hour hand is 7c	m?		_	
	1) 77cm ²	2) 38.:	5cm ²	3) 35 cm ²	4) 70 cm ²	
	If $\sec\theta + \tan\theta$	$\theta = p \text{ find } \underline{P^2 - 1}$				
100		$P^2 + 1$				
	1) sinθ	2) $\sin^2 \theta$	3) $\cos \theta$	4) $\cos^2 \theta$		