MAHARAJA RANJIT SINGH AFPI

19 JANUARY 2020

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

INST	RUCTIONS 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 a 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.

Directions (Question 1 to 7). In these questions, out of the four alternatives, choose the one which best expresses					
the mea	ning of the given word.				
1	Drowsy				
	(1) Sluggish (2) lethargic (3) lazy (4) sleepy				
2	Gaffe				
	(1) Robbery (2) joke (3) blunder (4) gossip				
3	Credence				
	(1) reward (2) award (3) belief in (4) prize				
4	Divulge				
	(1) divert (2) reveal (3) explore (4) narrate				
5	Lethal				
	(1) deadly (2) wrong (3) lovely (4) suicidal				
6	Trespass				
	(1) overrule (2) walk over (3) offend (4) inform				
7	Watershed				
-	(1) Waterfall (2) decisive (3) fire brigade (4) turning point				
Direction	(1) Watching (2) decisive (3) me singlade (4) tarining point				
0	He made a slight of judgment, of which he had to report later				
0	(1) France (2) blunder (2) decision (4) clin				
	(1) Error (2) blunder (3) decision (4) slip				
9	No country can to practice a rigid foreign policy.				
	(1) allow (2) attord (3) policy (4) say				
10	The passengers and crew members of the aircraft had a escape when it was taking off from				
	the runway.				
	(1) dangerous (2) slight (3) narrow (4) huge				
11	In spite of our best efforts we failed to any new facts from him.				
	(1) evoke (2) elicit (3) provoke (4) eject				
12	This book is a useful to our library.				
	(1) arrival (2) discovery (3) thing (4) addition				
Direction	ns (Question 13 to 16). In these questions, out of the four alternatives, choose the one which can be				
substitut	ted for the given words/sentences.				
13	An office with no work but high nav				
10	(1) aristocratic (2) sinecure (3) dictator (4) president				
1/	That which happens once a year				
14	(1) colondar (2) noronnial (2) annual (4) colinso				
15	(1) calendar (2) pereininar (5) annuar (4) eclipse				
15	One who is all knowing.				
4.6	(1) Versatile (2) specialist (3) student (4) omniscient				
16	Constant effort to achieve something				
	(1) perseverance (2) achiever (3) quitter (4) winner				
Direction	ns (Question 17 to 18). Find the correctly spelt word out of the four words given				
17	(1) ocasion (2) occasion (3) occassion (4) ocassion				
18	(1) rupaiyah (2) rupee (3) ruppee (4) ruppe				
Direction	ns (Question 19 to 23). Four alternatives are given for the idiom/phrase in italics in the sentence. Choose				
the one which best expresses the meaning of the idiom/phrase					
19	He is the <i>apple of his parent's eyes</i> .				
	(1) red like an apple (2) tasty like an apple				
	(3) very dear to his parents (4) very happy parents				
20	Ho is in the babit of blowing his own trympet				
20	(1) works in a hand (2) trumpet major				
	(1) works in a banu (2) trumpet major				
	(3) Indulges in self praise (4) talks too much				
21	He likes to <u>call a spade a spade</u>				
	(1) a gardener (2) plays cards (3) tells lies always (4) to speak truly				
22	The doctor came and saved the patient <u>at the eleventh hour</u> .				
	(1) late at night (2) at the last moment (3) before midnight (4) very quickly				
23	That was a play <u>of the first water</u> .				
	(1) of top quality (2) sailor (3) pirate (4) swimmer				
Direction	ns (Question 24 to 27). In these questions, out of the four alternatives, choose the one which is opposite to				
the meaning of the given word.					
24	Rigid				
	(1) hard (2) flexible (3) brittle (4) silkv				

Set A

-	Odd			
	(1) strange (2) funny (3) wise (4) even			
26	Triumph			
	(1) defeat (2) give up (3) surrender (4) trophy			
27	Laxity			
Direction	(1) harsh (2) persistence (3) polite (4) strictness			
Improve	the sentence by choosing one of the options. If no improvement is possible choose the option			
accordin	igly.			
28	The writing is already <u>at</u> the wall.			
	(1) in (2) on (3) with (4) no improvement			
29	The winter has <u>set in</u> and the days are cold.			
	(1) set (2) set out (3) set up (4) no improvement			
Direction	ns (Question 30 to 32).Reorder P,Q,R,S to make a meaningful sentence.			
30	When he			
	P: beard the bue and cry at midnight S: what to do			
	(1) $RDSO$ (2) $SORD$ (3) $RODS$ (4) $SDRO$			
31	While			
51	P: some people live Q: to eat and drink and wear			
	R: many have not even enough S: in luxury			
	(1) PQRS (2) SQPR (3) QRPS (4) PSRQ			
32	At least			
	P: early today Q: five persons were killed and 32 injured			
	R: when a passenger train rammed into S: a stationary goods train			
	(1) QRSP (2) PSQR (3) QSPR (4) SPRQ			
Direction	ns (Question 33 to 40). In these questions, you have two brief passages with 4 questions following each			
passage.	. Read the passage carefully and choose the best answer out of the four alternatives.			
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40	Who finally p	acked the basket?				
	(1) George and Harris (2) George					
	(3) the narra	tor sat down and p	acked	(4) George,	Harris and the narr	ator
	MATHEMATICS					
41.	If a number x is 10% less than another number y and y is 10% more than 125, then x is equal to					
	(1) 123.25 (2) 125 (3) 137.50 (4) 123.75					
42.	How many different triangles are there in the figure shown below:-					
			\checkmark	\searrow		
				\nearrow		
	(1) 28	(2) 20		>	(4) 26	
43.	The sum of two	o digits of a numbe	r and the nu	, mber obtained	d by reversing its di	gits is a square number.
	How many suc	h numbers are the	re?			
	(1) 4	(2) 6	(3) 7		(4) 8	
44.	$000 - \frac{1}{2} + 90$	$99\frac{2}{-}+999\frac{3}{-}+$	$999\frac{4}{-}+99$	$99\frac{5}{7}+999$	$\frac{6}{7}$ is simplified	to
	7 7	7 7 7		/	,	
	(1) 5997	(2) 5979	(3) !	5994	(4) 2997	
45	Teja Singh get	s 3 marks for each	correct sum	and loses 2 n	narks for each wror	ng sum. He attempts 30
	sums and obta	ined 40 marks. The	number of s	ums solved co	orrectly is	
	(1) 15	(2) 20	(3) 25	;	(4) 10	
46	Some friends	decided to go for	a picnic and	planned to s	pend Rs. 108 on ea	atables. Three of them,
40.	however, didn't turn up. As a consequence, each one of the remaining had to contribute Rs. 3 extra.					
	The number of them who attended the picnic was:-					
	(1) 15	(2) 12	(3) 9		(4) 6	
47.	In an office th	ara ara 109 tablas	and 122 chai	rs If 1/6 of th	a tables and $1/4$ of	f the chairs are broken
	how many peo	ple can work in the	e office, if eac	rs. If 176 of tr h person requ	ires one table and	one chair?
	(4) 00	. (2) 22	(2) 22		(4) 00	
	(1) 86	(2) 90	(3) 92		(4) 99	
48.	If the average	of six consecutive	even numbei	rs is 25, the di	fference between t	the largest and smallest
	number is					
	(1) 8	(2) 10	(3) 12		(4) 14	
49.	A cricketer had	d a certain average	of runs for h	nis 64 innings.	In his 65th inning,	he is bowled out for no
	score. This brin	ngs down his averag	ge by 2 runs.	His new avera	ge of runs is:	
	(1) 130	(2) 128	(3) 132		(4) 70	
50	The average o	f the three numbe	rs x, y and z	is 45. x is gre	ater than the avera	ge of y and z by 9. The
	average of y an	nd z is greater than	y by 2. Then	the difference	e of x and z is:	
	(1) 3	(2) 5	(3) 7		(4) None of the	se
	The ratio of m	ilk and water in mi	xture of four	containers ar	e 5 : 3. 2 : 1. 3 : 2 a	nd 7 : 4. respectively. In
51.	which containe	er the quantity of n	nilk, relative t	o water is mi	nimum?	
	(1) First	(2) Second	(3) Third	(4)	Fourth	
52.	The income of	C is 20% more tha	n B and the i	ncome of B is	25% more than A.	How much per cent is C's
		nun A 3 :				
	(1) 150%	(2) 50)% (3) 25%	(4) 35%	

53.	If an article is sold at a gain of 5% instead of being sold at a loss of 5%, one gets Rs. 5 more. What is the cost price of the article?				
	(1)105	(2) 110	(3) 50	(4) No	ne of these
54.	The list price of a clock first discount is 10%, the	is Rs. 160. A custom second is	er buys it for Rs. 12	2.40 after two succe	essive discounts. If
	(1) 10% (2)	12%	(3) 15%	(4) 18	3%
55.	If Rs. 12000 is divided in per annum is equal to t greater part is=	ito two parts such t the simple interest o	hat the simple intere on the second part f	est on the first part for $4^{1}/_{2}$ years at 16%	for 3 years at 12% 6 per annum. The
	(1) Rs.8000	(2) Rs.7000	(3) Rs.7500	(4) Rs	.6500
56.	A certain scheme of inverse of the second	estment in simple in he money through t	terest declares that hat scheme, for how	it trebles the invest many years you hav	ment in 8 years. If e to invest for:
	(1) 11 years 6 months	(2) 10 yea	ars 8 months	(3) 10 years	(4) 12 years
57.	The sides of an equ cm. Then length of	ilateral triangle a each side is:	are (x+3y) cm, (3	x+2y-2)cm and	$(4x + \frac{y+1}{2})$
58.	(1) 12 cm (2 A man gave 50% of his s sons A and B of 15 and when they attain the ag per annum. The share of)15cm (3) avings of Rs. 84,100 13 years of age resp e of 18 years, would f B was:	10cm to his wife and divid ectively. He divided receive the same am	(4) None of the ded the remaining su it in such a way that nount at 5% compou	ese Im among his two t each of his sons, nd rate of Interest
	(1) Rs. 20,000 (2	2) Rs. 20,050	(3) Rs. 22,000	(4) R	s. 22,050
59.	In a race of one kilometi start of 25 seconds, B W (1) 17 sec $(2) \frac{50}{29}$	er, A gives B a start of ins by 50 meters. Th $0 \sec (3) \frac{1}{2}$	of 100 meters and st e time taken by A to $\frac{200}{29} \sec \qquad (4)$	ill wins by 20 second run one kilometer is () $\frac{700}{29}$ sec	ls. But if A gives B a
60.	The n th term of the sequ	ence <u>1 , n+1 , 2</u> n n	<u>n+1</u> ,is n		
	(1) <u>n² +1</u> (2 <u>) n²-n+1</u> n n	(3)	n+1 (4) None of these	
61.	If x+y = 2z then the val	ue of $\frac{x}{x-z} + \frac{z}{y-z}$	is :		
	(1) 1 (2) 3 If $(x+1/x)^2 = 3$ then the x	alue of (x ⁷² +x ⁶⁶ +x ⁵⁴ +	(3) $\frac{1}{2}$	(4) 2	
62.			(2) 2		
63.	(1) 1 (2) 2 If p and q are non-zero qx ² +px+1= 0 has roots (1) α and 1/β (2)	constants and the e 2) 1/ B and α (3) 1	 equation x ² +px+q=0 h	(4) 4 has roots α and β , the (4) None of (4)	en the equation
64	The smallest positive va	lue of θ satisfying th	ie equation tan $\theta = 2s$	sinθ is	
	(1) 0 (2) ∞	(3) 60º	(4) None of these		
65.	A tower subtends an an foot of the tower at a he	gle α at a point 'A' i ight 'b' just above p	in the plane of its ba oint A is β . Then th	se and the angle of he height of the towe	depression of the er is
	(1) b tanαcotβ (2) b cotαtanβ	(3) b tanαtanβ	(4) b cotαcotβ	

66.	A boat is rowed away from a cliff 150 m high. At the top of cliff, the angle of depression of the boat					
	changes from 60° to 45° in 2.5 minutes. The speed of boat (in m/sec)is:					
	$(1) 1 + \frac{1}{\sqrt{2}}$ (2) 1 - $\frac{1}{\sqrt{2}}$ (3) $\sqrt{3} + 3$ (4) $2\sqrt{3} - 3$					
	V3 V3					
67.	The height of a room is 1/4 th of the sum of length and breadth. The cost of painting the wall at the rate of 50 paise per m ² is Rs. 400. Then height of room is					
	(1) 12m (2) 15m (3) 8m (4) 10m					
68.	A man builds a circular pool of radius 5 m inside circle of radius 12m. In order to compensate the area					
	lost by construction of pool, he extends the radius by "r" while keeping the garden still circular, so that the area of garden remains the same. The value of "r" in meter is:					
	(1) 1 (2) $\sqrt{5}$ (3) $\sqrt{7}$ (4) $\frac{5}{\pi}$					
69.	• Jay, Babita, Keshav and Deepa are standing on four different corners of square. Jay moves toward Keshav and reaches at his position in 20 $\sqrt{2}$ steps.Now Keshav will reach on Deepa's position in					
	(1) 20 v2steps (2) 20 steps (3) 10 steps (4) data in adequate					
70.	In a group of 40 singers and 80 dancers, 20% of the singers are less than 25 years of age and 40% of the					
	entire group is less than 25 years of age. What %age of dancers are less than 25 years of age?					
	(1) 25%(2) 30%(3) 50%(4) 15%					
71.	Circle A touches circle B through the centre of circle B. If the area of circle A is 100 cm ² , then the area					
	of circle B is:					
	(1) 200 cm ² (2) 300 cm ² (3) 400 cm ² (4) 500 cm ²					
72.	The following pie chart shows the hours spent for study at nome per day by class 10 students. What nercent of students study at least for one hour?					
	More than 2 hours Between 1 and 2 hrs					
	(1) 25% (2) 33% (3) 66% (4) 75%					
73.	If p and q are two consecutive natural numbers, then HCF (p, q) is (1) q (2) p (3) 1 (4) none of these					
74	If zeros of the polynomial x^3 - $3x^2 + x + 1 = 0$ are a-d, a, a +d then (a+d) is					
, 4.	(1) a natural no. (2) a non-integer no. (3) an integer (4) an irrational no.					
75	The equation $kx^2 - 6x - 2 = 0$ has real roots for:					
75.	(1) $k \ge -19/2$ (2) $k \ge -9/2$ (3) $k \le -19/2$ (4) $k \le -9/2$					
70	Under which conditions the equation $2(a^2+b^2) x^2 + 2 (a + b) x + 1 = 0$ have non-real roots? (a and b are					
70.	real numbers)					
	(1) If a =b (2) If a >b (3) if a <b (4)="" a="" b<="" if="" th="" ≠="">					
77.	Two tangents PA and PB are drawn to a circle with centre O from an external point P. Then which of					
	the following is correct:					
	$(1) \angle APB = 2 \angle OAB \qquad (2) \angle APB + 2 \angle OAB = 180$					
	(3) ZAPB = ZZPAB (4) ZAPB + ZOAB = 180					
78.	The distance between the points P (4, -5) and Q (12, k) is 10 units. The sum of all the possible values of					
	к isr (1) -10 (2) -5 (3) 12 (4) 4					
79.	The radius of a sphere is doubled. Which of the following will increase by a factor of 4?					
	(1) Only the surface area (2) Only the volume					
	(3) Both the volume and surface area (4) None of these					

80.	0. The area of a square inscribed in a circle of diameter p cm is				
	(1) p ² cm ²	(2) p²/2 c	m² (3) p/	2 cm ²	(4) p²/4cm²
81.	Cards marked with nur the box. Then the prob	nber 2 to 101 are place ability of card having r	ed in a box and mixed t number a perfect cube	horoughly. One card is:	d is drawn from
	$(1) \frac{5}{101}$ (2)	$)\frac{4}{101}$ (3) $\frac{3}{101}$	$(4)3 \\ 100$		
82.	In Δ ABC, right angled	at C, having sides a,b,o	c opposite to A,B,C res	pectively. Then TanA	A + TanB is:
	$(1) \frac{b^2}{ac}$	$(2)\underline{a+b}{ac}$	$(3)\frac{a^2}{bc}$	$(4)\underline{c^2}_{ab}$	
83.	If the circumference of circle in units is:	a circle is π units more	e than the diameter 'd'	of the circle, then t	he diameter of
	(1) 2π (2)π (3	5)π (4)2π	τ	
	π-1	π-1	π +1 π +	Ī	
84.	The area of a square fid	eld is 8 hectares. Then	time taken by a man to	o cross it diagonally	by walking at
	(1) 8 Min	(2) 5 Min	(3) 61	Min (4) Non	a of these
85.	Two lines are said to b	e parallel. The equation	n of one of the lines is	4x+3y=14. The equa	tion of second
	line is :				
	(1) 3x+4y=14	(2) 12x + 9y	=42 (3) -12x=	9y (4) Nor	ne of these.
86.	If the roots of the equa	tion 12 $x^2 + mx + 5 = 0$	are in the ratio 3:2, the	en m is equal to:	
	(1) $3\sqrt{10}$	(2) $2\sqrt{10}$	$(3) 5\sqrt{10}$	(4) $4\sqrt{10}$	
87.	At what angle the	hands of a clock (i	n degree) are incli	ned at 15 minute	es past 6?
	(1) 27 $\frac{1}{2}$	(2) $97\frac{1}{2}$	(3) $25\frac{1}{2}$	(4)	$72\frac{1}{2}$
88.	The sides of a cube are Black and Red. Green s to White side of cube?	e painted in different ide is adjacent to Grey	color. Red side is oppo and Blue side is adjac	site to Black. White ent to Green. What	e side is between color is opposite
	(1) Blue	(2) Grey	(3) Green	(4	4) Red
89.	The additive inverse of	S, where S=1-2+3-4+5	-6+7		+ 49-50, is:
	(1) -25	(2) 1	(3) 0	(4	1) 25
90.	The product of two wh	ole numbers is 24. The	smallest possible sum	of all these number	rs is:
	(1) 10	(2) 12	(3) 8	(4) 9	
91.	The hundred digit of a	three digit number is 7	more than the unit di	git. The digits of the	number are
	reversed and the result	ted number so obtaine	d, is subtracted from t	he original three dig	it number. The
	unit digit of the final hi	Imper so obtained is:	(2) 2	(4) 2	
	(1) U A container contains 8	(2) 1 01 of milk From this o	(3) 2 ontainer 81 of milk w	(4) 3 as taken out and rer	laced by
92.	water. This process wa	s further repeated two	times. How much mil	k is now contained k	by the
	container?	·			
	(1) 60L	(2) 58.6 L	(3) 58 L	(4) 58	.32L
93.	If two adjacent sides o	f a square paper are re	duced by 20% and 40%	respectively, by wh	nat % does the
	new area decrease? (1) 50%	(2) 52%	(3) 62%	(4)58%	
0/	A cone of height "h" ar	nd radius R, whose bas	e is fixed, is squeezed	by applying a force a	at its tip so that
54.	the height of the squee	zed solid became h/2.	What is the radius of	he new circular face	e (frustum)
	generated:	_			
	(1) $\frac{\sqrt{5}}{2}$ R (2)	$(\sqrt{5-1}) R $ (2)	3) $(\sqrt{5}+1) R$	(4) $\frac{(\sqrt{5}+1)}{2}$ R	
	2	2	3	2	

95.	In Δ ABC, \angle BCA=90° and CD \perp AB, with AD = 4cm and BD = 9 cm, then the value of DC is:					
	(1) 8cm	(2) 6	cm	(3) 4cm	(4) 10cm	
96.	If Sin17 = X / Y , then the value of sec17-sin73 will be:					
	$(1) \frac{y^2}{x \sqrt{y^2 - x^2}}$	$(2) \frac{x^2}{y \sqrt{y^2 - y^2}}$	$\frac{1}{x^2}$ (3) $\frac{x^2}{y \sqrt{x^2}}$	$\frac{(4)}{x^2}$	$\frac{y^2}{\sqrt{x^2 - y^2}}$	
97.	The mean of a set of 20 observations is 19.3. The mean is reduced to 0.5, when a new observation is added to the set. The new observation is:					
	(1) 19.8	(2) 9.8	(3) 9.2	(4) 8.8		
98.	If a letter is drawn at equal probabilities of	random from the le f being drawn are:	tters in the Word "PR	ORATA", then	the letters which have	
	(1) A and R	(2) P, O and T	(3) R, O and	Α	(4) both (1) and (2)	
99.	Three numbers which are co-prime to each other are such that the product of first two numbers is 42 and product of last two numbers is 78. Then, the sum of all the three numbers are:					
	(1) 25	(2) 32	(3) 26		(4) 13	
100	If LCM [p(x), q(x)] = 2	4x²y, HCF [p(x), q(x)] = 24 <i>xy</i> and p(<i>x</i>) = 8 <i>x</i>	y, then q(x) is:		
	(1) 3 <i>x</i> ² <i>y</i>	(2) 6 <i>x</i> ²	(3) 6 <i>x</i> ² <i>y</i>	(4	4) 3 <i>x</i> ²	