# Question Booklet and Answer-Keys Math Instructor



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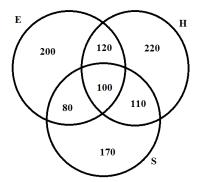
(1)	'ਪੋਠੌਹਾਰੀ' ਕੀ ਹੈ ः						
	(A) ਉਪ-ਭਾਸ਼ਾ (B) ਭਾਸ਼ਾ	(C) ਲਿੱਪੀ	(D) ਖੇਤਰ				
(2)	ਕਾਰਕ ਕਿੰਨੀ ਪ੍ਰਕਾਰ ਦੇ ਹੁੰਦੇ ਹਨ :						
	(A) ਪੰਜ (B) ਛੇ	(C) ਸੱਤ	(D) <b>ਅੱਠ</b>				
(3)	ਭੁਤਕਾਲ ਚੁਣੋਂ						
	 (A) ਹੈ, ਹਨ (B) ਸੀ, ਸਨ	(C) <b>ਗਾ</b> , ਗੀ	(D) <b>ਦਾ, ਦੀ</b>				
(4)	· · · ·						
	ਜੰਗਲ ਵਿਚ						
	(A) ਚੋਰ ਆਉਂਣੇ (B) ਅੱਗ ਲੱਗਣੀ	(C) ਮੰਗਲ ਹੋਣਾ	(D) ਦੰਗਲ ਹੋਣਾ				
(5)	ਕਿਰਿਆ ਦੀਆਂ ਕਿੰਨੀਆਂ ਕਿਸਮਾਂ ਹੁੰਦੀਆਂ						
	(A) ਦੋ (B) ਤਿੰਨ	(C) <b>ਚਾਰ</b>	(D) <b>ਪੰਜ</b>				
	tions (Q.68) :- In these questions, four op						
	e underlined idiom/ phrase in each sent ins the meaning of the underlined idiom/ pl		pression which dest				
-		0	ntation of multipious				
6.	Salman Rushdie <u>stirred up a hornet's ne</u> faith in his novel.	<u>st</u> unrough misreprese	entation of religious				
	<ul><li>(A) thrilled the people</li><li>(C) excited the hostility of a large number of</li></ul>		ined the people				
	(c) excited the hostility of a large number	of people (D) enterta	med me people.				
7.	As a poet she is s doing her job to keep the $(A)$ to keep her secrets intact $(B)$ to		st the times				
	<ul><li>(A) to keep her secrets intact</li><li>(B) to keep protesting against the times</li><li>(C) to keep off starvation</li><li>(D) to keep working with utmost speed.</li></ul>						
8.	I am afraid you have <u>caught a Tartar in him</u>						
0.	(A) disclosed his villainy (B) got him punished						
	(C) slandered him (D) found him	n more formidable that	n you expected.				
Direc	tions( <b>Q. 9-10</b> ):- Choose and mark the un	_	as an error, out of				
9.	four options, in each of the following sent The house, with its contents, were insured to		e owners.				
	A B C	D					
10.	Of the three, tea, coffee and cocoa, the latter A B C	br is Pardeep's favourit D	<u>e</u> .				
11	Which title did Gandhi ji refuse in protest a	gainst the Jalianyyala P	Pagh Massagra				
11.	A) Shere-Punjab B) Kesar-e-Hind	C) Hero-of-Punjab	D) Kesar-e-vatan				
12.	What was the age of Guru Gobind Singh whether the state of the state o	an ha hacama Guru?					
12.	A) 11 years B) 9 years C) 21		years				
13.	Treaty of Amritsar was signed between who	om and at which place	)				
15.	A) Between Willian Bentick & Ranjit Singh	n at Ropar					
	<ul><li>B) Between Willian Bentick &amp; Ranjit Singh</li><li>C) Between Shah Jahan &amp; Ranjit Singh at F</li></ul>						
	D) Between Lord Auckland & Ranjit Singh						

MI – 8 Page **2** of **11** 

14.	Who is the author of book "My Other TwoA) Surjit Singh BarnalaB) Parkash SiC) Sukhdev Singh DhindsaD) Dalip Kau	ngh Badal	
15.	Who was the founder of Patiala city in 1763A) Baba Budha SinghB) Baba GandC) Baba Ala SinghD) Maharaja B	lha Singh	
16.	<ul><li>Punjab Land Records Society (PLRS) was f</li><li>A) Implement Land Reforms Act</li><li>B) To study flaws in Land Records</li><li>C) Provide efficient Land Record related se</li><li>D) To settle disputes related to land Record</li></ul>	rvices	Government to
17.	Who said ,"Ajh Akhan Waris Shah Noo" A) Amrita Pritam B) Buleh Shah	C) Nazabat	D) Waris Shah
18.	Punjab consumes what percentage of fertiliz A) 3% B) 9%	zer consumption of Inc C) 1%	lia D) 15%
19.	What is the other name of Grand Trunk RoaA) Sher Shah Suri MargB) Genrali Marg		D) State Highway
20.	What is the longitude of Punjab? A) 73.55 degree East to 76.50 degree East B) 72 degree East to 75 degree East C) 75 degree East to 70 degree East D) 71 degree East to 75 degree East	LEE	
21.	Why do migratory birds go back to their ear A) weather becoming too hot in the regions B) scarcity of food in the regions to which t C) breeding instinct with change in climathabitat D) hunting season commencing in spring	hey have migrated	
22.	National Renewal Fund was constituted for A) Providing Pension for retiring employee C) Rural reconstruction D) Restructur		2
23.	In which year the Indian rupee was devalue A) 1990 B) 1991	d two times within a m C) 1994	nonth? D) 1999
24.	The inspiration of 'Liberty, Equality and Fr A) American revolution C) Russian revolution	aternity' was derived f B) French revolution D) None of the above	
25.	There is no reservation for the Scheduled Tr A) Punjab, Gujarat and Himachal Pradesh C) Nagaland, Meghalaya and Orissa	ribes in the Legislative B) Punjab, Assam an D) Assam, Nagaland	d Nagaland

26.	The word <i>Varna</i> is used in the Rig Veda with reference only to: A) Brahmana B) Dasa C) Kshatriya D) Arya and Dasa
27.	An anti British outfit 'Abhinava Bharat' was founded by: A) R.G. Bhandarkar B) V.D. Savarkar C) C.R. Das D) Sardar Bhagat Singh
28.	To complete one revolution in its orbit, the earth takes:A) one monthB) two yearsC) 6 monthsD) 12 months
29.	To which state the Cauvery Monitoring Committee (CMC) on December 7, 2012 asked to provide Tamil Nadu with 12 thousand million cubic feet of Cauvery water during December 2012 – A)Karnataka B) Maharashtra C) Andhra Pradesh D) Gujrat
30.	Name the Indian nuclear-capable surface-to-surface missile which on September 19,2012 was successfully test fired from Wheeler Island, off the Odisha Coast?A) Agni IIIB) Agni IVC) Prithvi IIID) Agni V
31.	Choose the odd one out.A) ArcB) DiagonalC) TangentD) Radius
32.	In a certain code language, 'mxy das zci' means 'good little frock'; 'jmx cos zci' means 'girl behaves good'; 'nvg drs cos' means 'girl makes mischief'; 'das ajp cos' means 'little girl fell'. Which word in that language stands for 'frock'? A) zci B) das C) nvg D) None of these
33.	<ul> <li>P is the brother of Q and R. S is R's mother. T is P's father. Which of the following statements cannot be definitely true?</li> <li>A) T is Q's father B) S is P's mother C) P is S's son D) Q is T's son</li> </ul>
34.	Pointing to a man on the stage, Rashi said, "He is the brother of the daughter of the wife of my husband." How is the man on the stage related to Rashi?A) SonB) HusbandC) CousinD) Nephew
35.	In a group of six women, there are four dancers, four vocal musicians, one actress and three violinists. Girija and Vanaja are among the violinists while Jalaja and Shailja do not know how to play on the violin. Shailja and Tanuja are among the dancers. Jalaja, Vanaja, Shailja and Tanuja are all vocal musicians and two of them are also violinists. If Pooja is an actress, who among the following is both a dancer and a violinist? A) Jalaja B) Shailja C) Tanuja D) Pooja
36.	In a row of boys, A is thirteenth from the left and D is seventeenth from the right. If in this row A is eleventh from the right then what is the position of D from the left? A) $6^{th}$ B) $7^{th}$ C) $10^{th}$ D) $12^{th}$
37.	A person starts from a point A and travels 3 km eastwards to B and then turns left and travels thrice that distance to reach C. He again turns left and travels five times the distance he covered between A and B and reaches his destination D. The shortest distance between the starting point and the destination is A) 12 km B) 15 km C) 16 km D) 18 km

38. A result of a survey of 1000 persons with respect to their knowledge of Hindi (H), English (E) and Sanskrit (S) is given below:



What is the ratio of those who know all the three languages to those who do not know Sanskrit?

A) 
$$\frac{1}{9}$$
 B)  $\frac{1}{10}$  C)  $\frac{10}{17}$  D)  $\frac{5}{27}$ 

39. In the following, which character when placed at the sign of interrogation shall complete the matrix?

	_					
		А	М	В	Ν	
		R	С	S	D	
		Е	U	F	?	
A) G	B) R	24	5.	C) T		D) V

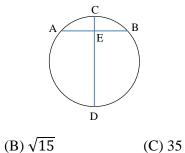
- 40. Nitin was counting down from 32. Sumit was counting upwards the numbers starting from 1 and he was calling out only the odd numbers. What common number will they call out at the same time if they were calling out at the same speed?
  A) 19
  B) 21
  C) 22
  D) They will not call out the same number
- All of the following are the characteristics of effective teacher except
   A) emphasizing group discussion
   C) emphasizing understanding
   B) emphasizing upon standards
   D) differential treatment to students
- 42. Why should teaching aids be used?
  - A) to make learning interesting
  - B) to make students attentive
  - C) to make class-room environment lively
  - D) to teach within understanding level of students
- 43. Before starting new lesson, the previous one should be repeated because
  A) the ability of the students is tested
  B) new lesson is easily understood if it relates to previous one
  C) it is helpful in maintaining discipline in the class
  D) students come to school after learning previous lesson
- 44. Good education is highly helpful in
  A) making the person self-dependant
  C) making the person a scholar
  B) man's attempt for learning
  D) increasing person's prestige

MI – 8 Page 5 of 11

45.	<ul><li>The difference between teaching and instruction</li><li>A) interaction between teaching and learner instructions</li></ul>	
	<ul><li>B) instruction is lying in teaching act but vice-v</li><li>C) teaching involves all aspects of behavior be aspect only</li><li>D) all of the above</li></ul>	
46.	Learning process is dampened by A) interest and aptitude B) adjustment abi C) receptive power D) nervousness	ility
47.	For an intrinsically motivated student A) level of motivation is lower than that of extr B) there is no need for formal education C) rewards are not at all required D) external rewards are not enough to keep him	
48.	Through objective type tests to students A) their knowledge levels cannot be known B) their abilities cannot be known C) their abilities of expression and writing style D) all of above	es cannot be known
49.		ing Indian history India's cultural knowledge
50.	A teacher's most precious item is his A) job B) pay C)	student's faith D) dress
51	The standard rules that many e-mail clients use A) SMTP B) STMP C) MIME	
52		guous sectors on a hard disk to increase Defragmentation Configuration
53	<ul> <li>What is the difference between a Virus and a W</li> <li>A) A worm is bigger in size</li> <li>B) A virus attaches itself to another file, wh</li> <li>C) A virus can replicate, a worm can't</li> <li>D) A virus can damage data, a worm can't</li> </ul>	
54	Which of the following change is not availableA) EntranceB) ExitC)	in MS-PowerPoint custom animation? Motion Path D) Time
55	Using 'Find' command in MS-Word, we can se A) Characters B) Whole Word C)	earch Symbols D) All of the above

56.	The non-terminating $(A) \frac{189898989\infty}{100000\infty}$	recurring decimal exp (B) $\frac{189}{100}$	ression 1.89898 (C) $\frac{188}{99}$	8989∞ is equivalent to (D) none of these
57.	$If\sqrt{x} + \sqrt{y} = 2\sqrt{3}$ (A) 4 (B) $\sqrt{3}$	and $\sqrt{x} - \sqrt{y} = 2$ (C)2	then value of	$x - 2\sqrt{3}$ will be (D) none of these
58.	If $y - x = 12$ and (A) $\frac{19}{10}$	$\frac{x+5}{y+5} = \frac{3}{4}$ then the value (B) $\frac{29}{45}$	the of $\frac{x}{y}$ will b (C) $\frac{43}{31}$	e $(D)\frac{31}{43}$
59.	The value of $\sqrt{8.2944}$ (A) 28.8	4 is       (B)2.88       (C) 0.	288	(D) none of these
60.	What is an angle betw (A) $75^{0}$	(B) $90^0$ (C) 8	and an hour har 5 <sup>0</sup>	nd of a clock at 3:30. (D) none of these
61.		tended by an arc of (B)60 <sup>0</sup> (C) $\left(\frac{1}{2}\right)$		us 5 cm of length 5 cm. (D) none of these
62.	Sum of exterior angle	es of an <i>n</i> -gon (i.e. a p		ides) is
	(A) π	(B) 2π	$(C)\frac{2 n \pi}{3}$	(D) none of these
63.	A cone has a base dia (A)10 cm	meter 21 cm and its v (B) 15 cm	olume is 2310 c (C) 5 cm	cm <sup>3</sup> . Calculate its height. (D) 20 cm
64.		ls as 16 cm and 40	cm respectivel	16 cm with diameters of its y. What is volume of the cm <sup>3</sup> (D) none of these
65.	It was observed from of two ships are $30^{\circ}$	the top of a 75 m hig	gh light house t If one ship is	hat the angles of depression exactly behind the other on

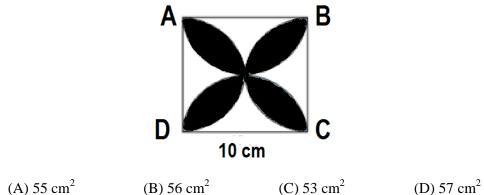
**66.** In the following figure if diameter CD of the circle is 8 cm and the line segment EC = 0.5 cm then a chord AB, which is perpendicular to the diameter CD, will be



(A) 45

(D) none of these

67. In the following figure ABCD is a square of side 10 cm and semicircles are drawn with each side of the square as diameter. Find area of the shaded portion of the square (use  $\pi = 3.14$ ).



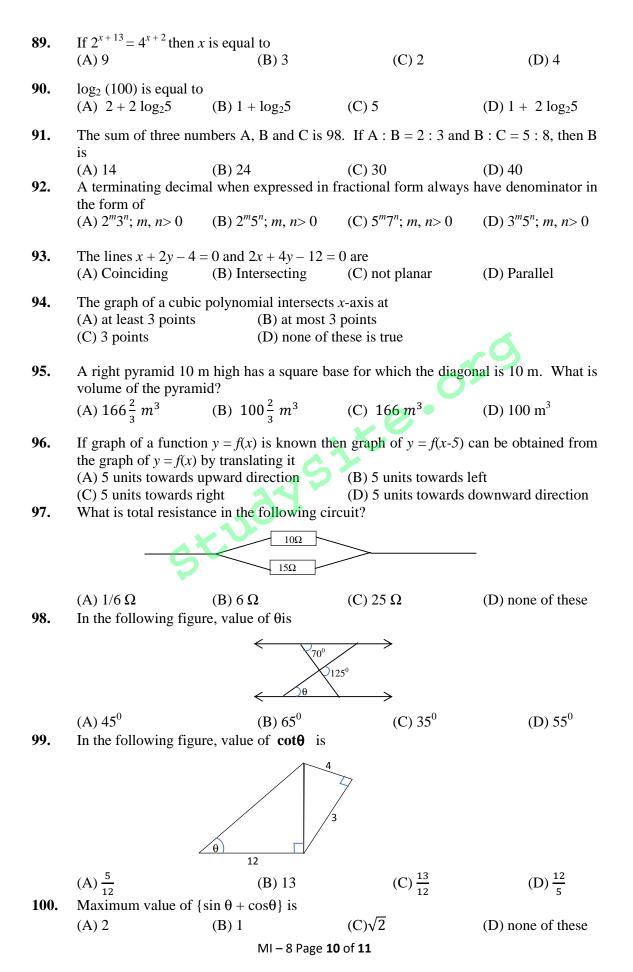
**68.** Compute area of the shaded portion of the annulus – in the following figure – if the internal and external boundary circles are of radii 7 cm and 9 cm respectively.

			$\rightarrow$	~0
				0*
			/_@*	
	$(A)\frac{15\pi}{4}$	(B) $\frac{\pi}{3}$	$(C)\frac{16\pi}{3}$	(D) none of these
69.	A car weighing	Quintals and travelling	at 15 ms <sup>-1</sup> is brou	ight to rest in 25 meters by
07.		The work done by a fo		
	(A) 22500 Joules		(C) 750 Joules	(D) none of these
	C C	<b>S</b>		
70.		th speed of 50 km/h is on due to breaks.	brought to rest in 4	45 sec. by applying breaks.
	(A) $12 \text{ ms}^{-2}$	(B) $10/9 \text{ ms}^{-2}$	$(C) 5 \text{ ms}^{-2}$	(D) none of these
	(11) 12 1115	( <b>b</b> ) 10/9 mb	(0) 5 ms	(D) none of these
71.		mp flows through a r	esistance of 10 oh	ims. Calculate the power
	consumed.			
	(A) 25 KW	(B) 55 KW	(C) 22.5 KW	(D) 2.25 KW
72.	A spanner (wren	ch) of length 30 cm tu	ms a Nut and tighte	ens it with a force of 15 N.
	Find the value of			
	(A) 4.5 Nm	(B) 5.5 Nm	(C) 2 Nm	(D) none of these
72	A	- 500 V - '		$(1, 1) = 1$ ; $(1, 1) = (1, 2)^0$ E = 1 (1)
73.		parallel to the plane, ac	-	th inclination $30^{\circ}$ . Find the
	(A) 350 g	(B) 250 g	(C) 550 g	(D) none of these
74.			a weight of 400	Kg on a horizontal plane.
	(A) 1	fficient of friction. (B) 2	(C) 0.1	(D) none of these
	$(\Lambda)$ 1	$(\mathbf{D}) \mathcal{L}$	(C) 0.1	

75.	A pulley is used to lift a mass with a force of 900N to a height of 10 m in 2 mins. The power consumed is				
	(A) 73 Watts	(B) 83 Watts	(C) 79 Watts	(D) 75 Watts	
76.			ending at a uniform spending at a uniform spent the height of balloo		
	(A) 6040 m	(B) 7080 m	(C) 8080 m	(D) 7040 m	
77.		according to law $v^2$ = eration of the particle i	$2 (x \sin x + \cos x); wh$	here $x$ is the distance	
	(A) $x\cos x$	$(\mathbf{B})x\sin x$	$(\mathbf{C})\cos x$	(D) none of these	
78.	*	0	a constant acceleratio wo seconds it moves	e	
	(A) $4 \text{ ms}^{-2}$	(B) $6 \text{ ms}^{-2}$	(C) $8 \text{ ms}^{-2}$	(D) none of these	
79.	What is the angle bet (A) $40^{0}$	ween forces P and 3P (B) $50^{\circ}$	when their resultant is (C) $60^0$	$\sqrt{13}$ P. (D) none of these	
80.		the positive direction of	0), having magnitude of x-axis, about the orig (C) $70\sqrt{2}$		
81.	For what value of K to $K x + 3 y = K - 3$ ; (A) 4		quations has infinitely (C) 5	many solutions ? (D) 6	
82.	The number of intege (A) 400	ers from 1 to 1000, wh (B) 600	ich are neither divisible (C) 600	e be 2 nor by 5 are. (D) none of these	
83.	What is 35% of a num (A) 5	mber if 12 is 15% of a (B) 12	number? (C) 33	(D) 28	
84.	The unknown value i (A) 14	n the equation $\sqrt{? \times 7}$ (B) 7	< 18 – 4 = 122 is (C) 6	(D) none of these	
85.	the net effect on sale	value in rupees?	0%, the sale increased $(C)$ 44% areas	·	
86.	(A) 60% more Father's age is 5 tim	(B) 44% less es the age of his son.	<ul><li>(C) 44% more</li><li>After 15 years the fa</li></ul>	(D) 40% more ther will be $2\frac{1}{2}$ times	
		What is the present age (B) 45 years		(D) 30 years	
87.	A cylinder, a cone ar ratio of their volumes	-	equal base and have the	ne same height. The	
88.	(A) 1 : 2 : 3	(B) 1 : 3 : 3	(C) 3 : 2 : 3 end to end. Find the	(D) 3 : 1 : 2 surface area of the	
	(A) $124 \text{ cm}^2$	(B) 214 cm <sup>2</sup>	(C) $224 \text{ cm}^2$	(D) 114 $cm^2$	

MI – 8 Page **9** of **11** 

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#### Answer- Key

#### Code-MI-8 (Math Instructor)

Q.	Ans.	Q.	Ans	Q.	Ans.	Q.	Ans.
1	А	26	D	51	А	76	D
2	D	27	В	52	В	77	А
3	В	28	D	53	В	78	В
4	С	29	А	54	D	79	С
5	А	30	В	55	D	80	В
6	С	31	В	56	С	81	D
7	С	32	D	57	А	82	А
8	D	33	D	58	D	83	D
9	С	34	А	59	В	84	В
10	D	35	В	60	А	85	С
11	В	36	В	61	С	86	В
12	В	37	В	62	В	87	D
13	A	38	D	63	D	88	С
14	A	39	D	64	С	89	А
15	С	40	D	65	А	90	А
16	С	41	D	66	В	91	С
17	A	42	А	67	D	92	В
18	В	43	В	68	С	93	D
19	A	44	А	69	А	94	В
20	А	45	D	70	В	95	А
21	С	46	D	71	D	96	С
22	D	47	D	72	А	97	В
23	В	48	D	73	В	98	D
24	В	49	А	74	С	99	D
25	А	50	С	75	D	100	С