

$17. \Delta ABC \sim \Delta DEF, E$	BC = 3 cm, $EF = 4$ c	m and area of $\triangle ABC$	$= 54 \text{ cm}^2$ determine the	area of $\Delta DEF_{di.co.in}$
v18. <sup>M</sup> If sin A ⇔ cos B/th	en prove that A +	Bv₩ 90 <sup>0</sup> lanabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.in
www.Manabadi.co.in www 19. Harpreeth tosses tw www.Manabadi.co.in www			s the probability that h www.Manabadi.co.in	www.Manabadi.co.in e gets atleast one www.Manabadi.co.in
www.M <b>head</b> adi.co.in www	w.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.ir
20. <sup>™</sup> Find the Median e	lass of the given da	a <b>ta.</b> ww.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.ir
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	w.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.in	www.M <b>8∩xb4</b> i <b>⊞.32</b> .i
1). Answer ALL t	he Questions	www.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.i
www.Manabadi.co.in www 2). Each Question	w.IVIanabadi.co.in	www.Manabadi.co.in www.Manabadi.co.in	www.Manabadi.co.in www.Manabadi.co.in	www.Manabadi.co.i
v21MIfix <sup>2</sup> a⊭liy <sup>2</sup> c≕r6xyvthe	w.ivianabadai.co.ini			www.Manabadi.co.i www.Manabadi.co.i
	1 0		e	
$^{\text{www.Manabadi}}_{22.}$ If $A = \{3, 6, 9, 12, www.Manabadi.co.in www.$	15, 18, 21} B = { w.Manabadi.co.in	4, 8, 12, 16, 20 } C	= { 2, 4, 6, 8, 10, 12, 14 www.Manabadi.co.in	www.Manabadi.co.i
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23. MA well of diameter		-	-	
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1 1 4		www.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.i
24. <sup>M</sup> If the sum of first				
25. Prove that the point www.Manabadi.co.in				
ww.Mparallelogram. www				www.Manabadi.co.i
26. Find the area of the				www.Manabadi.co.i
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$^{27}$ . MA die is thrown on			www.Manabadi.co.in	www.Manabadi.co.i
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vww.Manal(iv).co.iA numi	ber lying between	2 and 6 anabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.i
28. The following tabl	w.Manabadi.co.in e gives the literacy	www.Manabadi.co.in y rate of 35 cities. Fin	www.Manabadi.co.in d the mean literacy rate	www.Manabadi.co.i
vww.Manabadi.co.in <sup>2</sup> www vww.Man <b>Eiteracy.rate</b> vind			www.Manabadi.co.in	www.Manabadi.co.i www.Manabadi.co.i
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	w.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.ii

SECTION-IV Note: a probability that the sum of the two Manabadician www.Manabadician (M		SECTION IV						
1) Answer All the Questions contraves Manabadi contraves for the contrave				www.Manabadi.co.in				
$ \begin{array}{l} \begin{array}{l} \mbox{We} M \\ \mbox{Manabadi} \mbox{Col} \\ $								
$ \begin{array}{c} 1 \text{ Each Question carries 8 Marks} \\ \text{www.Manabadi.co.in} \\ www.Ma$	I) I mover I m the Questions							
29. (a) Show that $\sqrt{\mu} + \sqrt{q}$ is an irrational number anabadi coin www.Manabadi.coin	2) Each Question carries 8 Marks							
29. (a) Show that $\sqrt{\mu} + \sqrt{q}$ is an irrational number anabadi coin www.Manabadi.coin	3) There is an internal choice for each	ch Question.						
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www.Manabadi.co.in www.M	b) Solve $2x^2 + 3x + 7=0$ by using com	pleting the square						
www.Manabadi.co.in www.M	30. a) Draw the graph of $y = 6 - x - x^2$ and	d find zeros.						
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$\begin{array}{l} 31. a) ABC is a right mapled coin, www.Manabadi coin www.Manabadi coin www.Manabadi.coin www.Ma$	b) Solve $\frac{1}{3x^2+y} + \frac{1}{3x^2+y} = \frac{1}{2}$ and $\frac{1}{2(3x^2+y)}$	$\overline{\psi}$						
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www.Manabadi.co.in www.M	31. a) ABC is a right triangle right angled www.Manabadi.co.in www.Manabadi.co.in v	at c. Let BC = a, CA	= b, AB =c and let 'P' www.Manabadi.co.in	be the length of the www.Manabadi.co.in				
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www.Manabadi.co.in www.M	www.Mb)a(i)If A, B and C are interior angles	of triangle ABC then	show that sindico in	₩.cos/11/lanabadi.co.in				
<ul> <li>32. a) A straight highway leads to the foot of the tower. Ramaiah standing at the top of the tower and comobserves a car at an angle of depression 30°. The car is approaching the foot of the tower with a uniform speed. Six seconds later the angle of depression of the car is found to be 60°. Find the time taken by the car to reach the foot of tower from this point.</li> <li>b) Two dice, one red and one white are thrown at the same time write down all the possible outcomes. What is the probability that the sum of the two numbers approving on the top of the dice is an angle of the same time write down all the possible outcomes. What is the probability that the sum of the two numbers approving on the top of the dice is an angle of n. Manabadi.co.in</li> <li>33. a) If the geometric progression 162, 54, 18, Annabadi.co.in</li> <li>b) The following table gives production yield per hector of wheat of 100 forms of village</li> <li>b) The following table gives production yield per hector of wheat of 100 forms of village</li> <li>b) The following table gives production yield per hector of wheat of 100 forms of village</li> <li>c) Annabadi.co.in</li> <lic) annabadi.c<="" th=""><th>www.Manabadi.co.in www.Manabadi.co.in v</th><th>www.Manabadi.co.in</th><th>www.Manabadi.co.in</th><th>www.Manabadi.co.in</th></lic)></ul>	www.Manabadi.co.in www.Manabadi.co.in v	www.Manabadi.co.in	www.Manabadi.co.in	www.Manabadi.co.in				
<ul> <li>32. a) A straight highway leads to the foot of the tower. Ramaiah standing at the top of the tower and comobserves a car at an angle of depression 30°. The car is approaching the foot of the tower with a uniform speed. Six seconds later the angle of depression of the car is found to be 60°. Find the time taken by the car to reach the foot of tower from this point.</li> <li>b) Two dice, one red and one white are thrown at the same time write down all the possible outcomes. What is the probability that the sum of the two numbers approving on the top of the dice is an angle of the same time write down all the possible outcomes. What is the probability that the sum of the two numbers approving on the top of the dice is an angle of n. Manabadi.co.in</li> <li>33. a) If the geometric progression 162, 54, 18, Annabadi.co.in</li> <li>b) The following table gives production yield per hector of wheat of 100 forms of village</li> <li>b) The following table gives production yield per hector of wheat of 100 forms of village</li> <li>b) The following table gives production yield per hector of wheat of 100 forms of village</li> <li>c) Annabadi.co.in</li> <lic) annabadi.c<="" th=""><th>(ii) Show that <math>\sqrt{\frac{1+1}{2}} = \sec A + \tan A</math></th><th>vww.Manabadi.co.in</th><th></th><th></th></lic)></ul>	(ii) Show that $\sqrt{\frac{1+1}{2}} = \sec A + \tan A$	vww.Manabadi.co.in						
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