ATOMIC ENERGY CENTRAL SCHOOL NARORA

UNIT TEST2	2018-19	Time: 90 Min
Class: XI, General Instructions	Sub: Mathematics,	Max.50
	<i>{i} Question Nos. 1 to {ii} Question Nos.3 to {iii} Question No.6 to {iv} Question No.12 a</i>	2 are carrying 1 mark each 5 are carrying 2 marks each 11are carrying 4 marks each. nd 14are carrying 6 mark each
1 Find the equation of 2: Find the slope of the 3: A bag has 7 red balls probability that both a 4: Find the equation of I 5: Evaluate $\lim_{x\to 0}$	the line parallel to y axis line $y + x = 3$ and 8 blue balls two ball re same color ine which is passing through the same the passing through the second s	and passing through (2,3) are drawn without replacement find the ugh the points (1,1) and (2,4)
6: A pair of dice is through the doublets	wn ,find the probability of	getting a total is 8 or
7: Evaluate $\lim_{v \to 0}$	tan y – sin y v³	
8: Find the equation o through(4,1)	f the ellipse whose foci	are at $(3,0)$ and $(-3,0)$ and passing
9: Evaluate $\lim_{x\to\pi/x\to\pi/x\to\pi/x\to\pi/x\to\pi/x\to\pi/x\to\pi/x\to\pi/x\to\pi/x\to\pi/$	$1 + \cos 2 x$ 2 $(\pi -x)^2$	

- 10: Find the equation of the line passing through the intersection of the line x + y+3 = 0and 2x - y + 2 = 0 and parallel to the line 3x + y + 4 = 0
- 11 :A single die is thrown three times ,find the probability getting a total of at most 6
- 12: Find the equation of parabola whose focus is (1,-1) and vertex (2,1)
- 13: : Find the equation of the circle passing through the points (4,-3),(1,-2) and centre lies on the line 3x + 4y = 7
- 14 : If p and q be the perpendicular from the origin upon the straight lines $x \sec \Phi + y$ Cosec $\Phi = a$ and $x \cos \Phi - y \sin \Phi = a \cos 2\Phi$, prove that $4 p^2 + q^2 = a^2$