	Shree H. N. Shukla College of Science Rajkot B.Sc. (Sem I) (CBCS) [<u>101-PHYSICS]</u> UNIT TEST-2017 DATE:-18/9/2017	
Stude	ent's Name:	DAIE:-10/9/2017
Roll no.: Total marks- 30		Total marks- 30
Q-1 (Give the answer of following	[16]
1)	What will be the the magnitude of 2k-3k.	
2)	What will be the unite vector of I + j?	
3)	If the two vectors are Co-Ilinear then Θ = or	
4)	If vector product of two vector are perpendicular to eac	ch other than $\Theta = $ and $A \times B = $
5)	What will be the internal impedance of an ideal voltage	sources.
6)	Give the names of various types of capacitors.	
7)	Which type of component PN Junction diode.	
8)	What will be the resultant resistances 20Ω and 100Ω ar	e series connected.
9)	Draw the symbols of zener diode.	
10))) Write an example of scalar & vector.	

11) If $\rightarrow = 5i$ and $\rightarrow = 3j$, than $\rightarrow = _$	
12) For a vector \xrightarrow{AB} , $\xrightarrow{AB} = \xrightarrow{BA}$ right or wrong.	
13) Write a unit of Capacitor and Inductor.	
14) Mica capacitors are having capacitance range fromPF.	
15) Generally which type of inductor are use?	
16) If three electrodes, anode, cathode and grid are given then it is calledvalve.	
Q-2 Give the answer of following [14]	
17) Define Scalar and Vector.	
17) Define Scalar and Vector. 18) Find the unit vector of A= 3i+6j-2k	

21) Write the important results of scalar product of two vectors. (Any two)

22) What is condition for differential calculus as maxima and minima?

23) Define D.C. source and A.C. source.