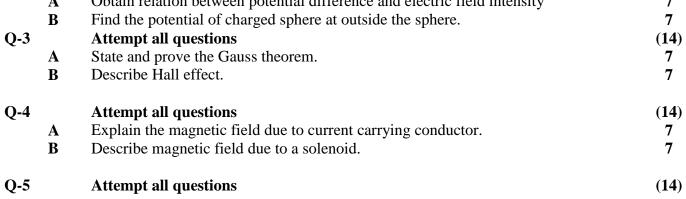
	Envellment No		Every Coot No.			
	Enronment No					
	C.U.SHAH UNIVERSITY					
	Summer Examination-2018					
	Subject Name: Electricity and Magnetism					
	<b>Subject Code:</b>	4SC03ELM1	Branch: B.Sc. (All)			
	Semester: 3	Date: 04/04/2018	Time: 02:30 To 05:30	Marks: 70		
	<ul> <li>Instructions:</li> <li>(1) Use of Programmable calculator &amp; any other electronic instrument is prohibited.</li> <li>(2) Instructions written on main answer book are strictly to be obeyed.</li> <li>(3) Draw neat diagrams and figures (if necessary) at right places.</li> <li>(4) Assume suitable data if needed.</li> </ul>					
Q-1	Attemp	ot the following questions:		(14)		
Atte	b) What is c) Define d) What is e) What is f) Define g) What is h) Differen i) The am j) What is k) Electron l) Give the m Explain n) What is	ntiate between electric and ma	C, potential V and Charge Q.?  Ignetic flux?  Igstore by conductor, in which form?  Ingth?  Ingth?			
Q-2 Q-3	A Obtain : B Find the Attemp A State an	ot all questions relation between potential diff e potential of charged sphere a ot all questions and prove the Gauss theorem. be Hall effect.	Ference and electric field intensity at outside the sphere.	(14) 7 7 (14) 7 7		





	A State Biot-Savart's law and using it find B for a current carrying straight cond		luctor 7	
	В	Compare the properties of Para and Dia magnetic materials	7	
Q-6		Attempt all questions	(14)	
	$\mathbf{A}$	Explain in detail Ferro magnetic materials	7	
	В	Explain energy loss due to hysteresis.	7	
Q-7		Attempt all questions		
	$\mathbf{A}$	Write and explain the Equation of continuity of current.	7	
	В	Explain transverse nature of Electromagnetic waves.	7	
Q-8		Attempt all questions		
_	$\mathbf{A}$	Explain the term Poynting's Vector in detail	7	
	В	Explain the energy density in electromagnetic field.	3	
		Explain the Maxwell equation briefly	4	

