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[4959]-1143 **B.E.** (Information Technology) c-GREEN IT - PRINCIPLES AND PRACTICES (2012 Course) (Elective-IV) (End Semester) (Semester-II) (414464) *Time* : 2½ *Hours*] [Max. Marks: 70 Instructions to the candidates: Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10. Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks. 3) Assume suitable data if necessary. How software's impact the environment and the energy consumption of **Q1)** a) computing systems? [7] How server farm and server virtualization helps in saving energy. b) [7] OR What are P and C states of processor? How does processor C-states **Q2)** a) save energy? [7] What are the quality attributes used for developing sustainable software. b) [7] How energy-efficient networking is related to objectives of Green IT. *Q3*) a) [6] What are sustainable information technology systems (SITS)? How SITS b) can help in improving and leveraging environmental sustainability. OR **Q4**) a) Why energy-efficient networking important in light of the increased

- number of renewable power plants? [6]
 - How Green IT strategies adopted by an organization evolve over time. b)

[8]

Q5)	a)	Explain sustainability from perspective of multilevel information probl	em. [7]
	b)	How green IT strategy is developed by an organization.	[7]
		OR	
Q6)	a)	Explain the source of greenhouse gas emissions within the organization	ons. [7]
	b)	Discuss the organizational considerations in formulating enterprise gr IT strategy.	reen [7]
Q7)	a)	What are the sustainability dimensions of information technology.	[7]
	b)	What is enterprise resource planning (ERP) system? Explain an architect of typical ERP system with respect to functional activities of organization.	
		OR	
Q8)	a)	What factors will motivate an organization to green their IT activitie absence of any external pressure.	s in [7]
	b)	Which key technologies are to be considered for developing sustains IT strategic plan?	able [7]
Q9)	a)	What are the steps involved in risk assessment of an information syst	em. [7]
	b)	What are the enabling effects of green IT-based software application	1. [7]
		OR	
Q10,) a)	How an organization can formulate, implement and manage its gractices.	een [7]
	b)	What is enterprise architecture planning and how it is different firstrategic planning.	rom [7]