(3 Hours)   **(80 Marks)**

NB:- 1) Question No 1 is compulsory

2) Attempt any three questions out of remaining five question

3) Assume suitable data

4) Assumption should be clearly stated

Q.1	a)	What is Interoperability?	**5**
	b)	What is DICOM Compatible and DICOM ready instruments?	**5**
	c)	What is Elements or attributes in XML?	**5**
	d)	Explain Data Types Numbers and Quantities For HL7	**5**
Q.2	a)	Explain the XML syntax	**10**
	b)	What is well formed and valid XML Document?	**10**
Q.3	a)	What is VR? Explain any 4 in detail for DICOM	**10**
	b)	Explain DICOM Message Service elements	**10**
Q.4	a)	What are the different segments in HL7 message?	**10**
	b)	Explain the ADT segment with suitable example	**10**
Q.5	a)	Explain need and importance of DICOM in medical imaging	**10**
	b)	Explain the structure of C- echo	**10**
Q.6		Solve any four	
	a)	Explain foreign and wild characters	**5**
	b)	Explain Little and Big Endian type of storage data with examples	**5**
	c)	What are the uses of XML?	**5**
	d)	What are the assumptions made by HL7 about communication Environment?	**5**
	e)	Explain the development stages of standards.	**5**

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