UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

UPES
THE NATION BUILDERS UNIVERSITY

End Semester Examination, April, 2017

Program/course: B.TECH CS – OSS   Semester – VIII
Subject: Healthcare applications & HL7 - II   Max. Marks : 100
Code : CSIB 412   Duration : 3 Hrs
No. of page/s:

Section A
Note: All 5 questions are compulsory. Each question of Section A carries 4 marks.

Q1. Elaborate the role of Continuity of Care Document (CCD).

Q2. Provide the structure of Patient Identification Segment (PID)

Q3. Differentiate Act.classCode and Entity.classCode

Q4. Discus hierarchical message definition (HMD)

Q5. How is v3 different than v2?

Section B
Note: Answer All questions . Each question of Section B carries 10 marks.

Q6. Explain the role of RIM backbone classes and core classes in designing process.

Q7. Justify the statement *"IHE provides a standard process for implementing multiple standards.".*

Q8. List typical EHR Components and elaborate the role of HL7 in achieving EHR.

Q9. Design process flow for-Client system assigns identifier, person exists on MPI only

Section C
Note: Answer All questions . Each question of Section c carries 20 marks.

Q10. Explain the working of Regional Health Information Organization (RHIO) and Nationwide Health Information Network (NHIN)   Or
Illustrate the usage of Master Patient Index(MPI). Explain multiple approaches to Implement MPI .

Q11. Apply Domain Message Information Model (DMIM) for Patient Administration Domain and order entry domain.