UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021

Course: IT Adoption for HealthCare Operations & Processes **Semester: VII**
Program: B.Tech. CSE spl. In IOT & SC **Time 03 hrs.**
Course Code: CSHI3001P **Max. Marks: 100**

SECTION A
1. **Each Question will carry 4 Marks**
2. **Instruction: Answer the following**

(5Qx 4M = 20 Marks)

S. No.	Question	CO
Q 1	(a). Describe an EHR [2 Marks] (b). Discuss role of VRDL [2 Marks]	CO1
Q2	Give full form of [0.5 Mark each] (i). ISA (ii). IDSP (iii) CDSCO (iv) HIPPA (v). ANDA (vi). NOTTO (vii) NPPA (viii) HITECH	CO1
Q3	Discuss significance of Information Privacy in Health care sector?	CO3
Q4	How do you define 5 Vs of Big Data.	CO4
Q5	Discuss the functions of Data Hub in handling the challenges of data management for Genomics.	CO4

SECTION B
1. **Each question will carry 10 marks [all questions compulsory; Q9 has internal choice]**
2. **Instruction: Write short / brief notes**

(4Qx10M = 40 Marks)

Q6	Draw and briefly explain Big Data and Analytics Platform mapped to 5 Vs of big data	CO4
Q7	Define Clinical Trial and role of Clinical Trial Management Systems	CO2
Q8	(a). How is PACS helpful in medical imaging? List its salient features. [5 Marks] (b). Write a brief note on CLAD [5 Marks]	CO3
Q9	Write a brief note on Investigational Drug Application (IND) (or) Discuss features of Hospital Information Management System (HIMS), covering all modules and their functions.	CO2

	SECTION C	
	1. Each question carries 20 Marks [all questions compulsory; Q11 has internal choice] **2. Instruction: Write Long Answer** **2Q*20 Marks=40**	
Q10	(a). Explain the phases of Drug Development process [10 Marks] (b). Define a Diagnostic Decision Support System? Discuss its role and functions [10 Marks]	**CO3**
Q11	Write a brief note on the following emerging trends of Health Care Sector (use suitable examples/use cases): (a) Wearable sensors in Health Care monitoring [10 Marks] (b) Pervasive Health Care environments [10 Marks] (Or) Write a brief note on the following emerging trends of Health Care Sector (use suitable examples/use cases): (a). Robotic assistance in Hospitals & Home Care environments [10 Marks] (b). AR/VR in Health Care [10 Marks]	**CO5**