| **University of Kerala** | | |
| --- | --- | --- |
| Discipline: Computer Science |  | Time: 1 Hour 30 Minutes (90 Mins.) |
| Course Code: UK1MDCCSC105 |  | Total Marks: 42 |
| Course Title: Health Informatics |  |  |
| Type of Course: MDC |  |  |
| Semester: 1 |  |  |
| Academic Level: 100-199 |  |  |
| Total Credit: 3, Theory: 3 Credit |  |  |

Part A. 6 Marks. Time: 6 Minutes

Objective Type. 1 Mark Each. Answer All Questions

(Cognitive Level: Remember/Understand)

| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| --- | --- | --- | --- |
| 1. | Expand the term NCPDP. | Remember | CO3 |
| 2. | Name any two organizations involved with HIT | Remember | CO1 |
| 3. | What is CDSS? | Understand | CO2 |
| 4. | List any two advantages of e-prescribing. | Remember | CO2 |
| 5. | What are Transport standards? | Understand | CO3 |
| 6. | What is Digital Signature? | Remember | CO4 |

Part B. 8 Marks. Time: 24 Minutes

Short Answer. 2 Marks Each. Answer All Questions

(Cognitive Level: Understand/Apply)

| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| --- | --- | --- | --- |
| 7. | Explain Clinical Data Warehouses | Understand | CO1 |
| 8. | Demonstrate Analytics Pipeline | Understand | CO2 |
| 9. | Discuss MEDCIN® | Understand | CO3 |
| 10. | Explain any four ethics related to health informatics | Understand | CO4 |

Part C. 28 Marks. Time: 60 Minutes

Long Answer. 7 marks each. Answer all 4 Questions, choosing among options within each question.

(Cognitive Level: Apply/Analyze/Evaluate/Create)

| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| --- | --- | --- | --- |
| 11. | a) Explain the step-by-step Process of E-Prescribing through CPOE  or  b) Discuss the key components of Electronic Health Records (EHR) | Understand | CO2 |
| 12. | a) Explain the features of HL7  or  b)Define ELINCS and explain its primary purpose in the healthcare system. | Understand | CO3 |
| 13. | a) Explain the security principles of HIPPA  or  b)Discuss the difficulties in applying medical ethics in the digital world. | Understand | CO4 |
| 14. | a)What are the benefits of using a Clinical Data Warehouse for patient care?  or  b)Define health informatics and explain its significance in improving healthcare | Understand | CO1 |