

**POST GRADUATE CERTIFICATE IN MEDICAL
INFORMATICS (PGCMI)****Term-End Examination****December, 2015****MAH-004 : INFORMATION SYSTEMS – II***Time : 3 hours**Maximum Marks : 100*

Note : Attempt any **five** questions. All questions carry equal marks. Each question carries 20 marks.

1. (a) Give an overview of computer support in Medicine and Health Care. 10
- (b) Discuss in detail the role of information in interpreting data and making decisions. 10
2. (a) Discuss in detail the Diagnostic-Therapeutic Cycle with a suitable diagram. 10
- (b) Discuss in brief Data Redundancy. 10
3. (a) Give an overview of Information and Data Processing. 10
- (b) Discuss in detail the technological developments in Health Care. 10

4. (a) Describe the role of Communication Technology in Health Care system. 10
- (b) Explain the elements of communication. 10
5. (a) Define Information. Discuss in detail the carriers and different aspects of information. 2+8=10
- (b) Give a brief account of Shannon's formula for Information Entropy. 10
6. (a) Define Data. How will you differentiate Primary Data from Secondary Data ? 10
- (b) Discuss in detail the types of data that transport information. 10
7. (a) What do you understand by Data Precision ? 10
- (b) Discuss in detail Systematic and Statistical errors with suitable examples. 10
8. (a) Enumerate the components of hardware of a computer system. 10
- (b) Discuss in detail the CPU (Central Processing Unit). 10
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