

**POST GRADUATE CERTIFICATE IN MEDICAL  
INFORMATICS (PGCMI)**

**Term-End Examination**

**June, 2015**

00091

**MAH-003 : INFORMATION SYSTEMS – I**

*Time : 3 hours*

*Maximum Marks : 100*

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

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1. (a) Define Coding and describe the different types of coding. 10  
(b) Discuss in detail Combination Codes. 10
2. (a) Enumerate the strategies for Data Entry. 10  
(b) Discuss in detail structured Data Entry. 10
3. (a) Discuss in detail quantization and quantification of signals. 10  
(b) Briefly discuss the areas of application of Bio-signals. 10
4. Discuss in detail the principles of MRI and CT Scan. 20

5. Critically discuss the use of Nuclear Medicine in Health Care. 20
  6. Give an overview on Image Processing and Analysis. 20
  7. What do you understand by image segmentation ? Critically discuss the various methods. 20
  8. Discuss in detail the basic functions of Department Information System (DIS). 20
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