

**POST GRADUATE CERTIFICATE IN MEDICAL
INFORMATICS (PGCMI)****Term-End Examination****December, 2015****MAH-002 : DATA MANAGEMENT***Time : 3 hours**Maximum Marks : 100*

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

1. (a) Define Statistics. Give an overview of Statistics. 10
- (b) Discuss in detail various applications of Statistics. 10
2. (a) Describe various methods of Sampling and their applications. 10
- (b) Discuss in detail Multi-stage Sampling. 10
3. (a) Define Descriptive Statistics and explain how does it differ from Inferential Statistics. 10
- (b) Discuss in detail Experimental Studies. 10

4. (a) Define Standard Deviation and describe it with the help of suitable examples. 10
- (b) Define Chi-square Statistics and discuss Chi-square distribution. 10
5. (a) Explain how will you test the equality of variances. 10
- (b) Discuss in detail the uses of student's t-test. 10
6. (a) Define and explain Venn diagram. Draw the Venn diagram for equivalency and implications. 10
- (b) Describe Boolean Algebra with suitable diagrams. 10
7. (a) Give an overview of Image Management and Access system. 10
- (b) Explain how will you determine storage needs. 10
8. (a) Explain in detail Decision Support and Rule-based systems in health care. 10
- (b) Discuss in detail knowledge, acquisition and design structuring (KADS) and its applications. 10
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