

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : BBA(HM) 405 Basic Healthcare Analytics

UPID : 400076



Time Allotted : 3 Hours

Full Marks : 70

*The Figures in the margin indicate full marks.**Candidate are required to give their answers in their own words as far as practicable***Group-A (Very Short Answer Type Question)**

[1 x 10 = 10]

1. Answer any ten of the following :

- (I) What are data analytics used for?
- (II) For each value of the _____ the distribution of the dependent variable must be normal.
- (III) _____ are the basic building blocks of qualitative data.
- (IV) What is Linear Regression?
- (V) What is the full form of DBMS?
- (VI) The process of quantifying data is referred to as _____
- (VII) What is the full form of OLTP?
- (VIII) Logistic regression is used to find the probability of event = Success and event = _____
- (IX) What is quantitative data?
- (X) _____ graph is used when we want to visually examine the relationship between two quantitative variables.
- (XI) What are the challenges of digital healthcare?
- (XII) What is an ANOVA test in statistics?

Group-B (Short Answer Type Question)

Answer any three of the following :

[5 x 3 = 15]

2. What are the characteristics of data quality in health care? [5]
3. What is random sampling? Name types of random sampling. [5]
4. How can you consider information as a resource in health care organizations? [5]
5. Write down the responsibilities of a health data analyst. [5]
6. Write steps of goal seek analysis in MS-Excel. [5]

Group-C (Long Answer Type Question)

Answer any three of the following :

[15 x 3 = 45]

7. (a) Explain data, information and knowledge with examples [10]
(b) How do data, information and knowledge contribute to organizational competitive advantages? [5]
8. (a) Distinguish between population and sample. [5]
(b) Why is data analytics important in business? [5]
(c) Why is data analytics growing? [5]
9. (a) What is collection of data? Describe different methods for collecting primary data. [2+5]
(b) What is data ? [2+6]
What do you understand by Raw data, semi processed data and processed data
10. (a) What is a Data Warehouse? [5]
(b) Explain need for data warehousing. [5]
(c) What are the benefits of data warehouse? [5]
11. (a) Describe sources of health care data. [10]
(b) Write a short note on advantages and challenges of administrative data in health care. [5]

*** END OF PAPER ***