

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,

LONERE – RAIGAD -402 103

Winter Semester Examination – Dec.- 2019

Branch: M. Arch (General)

Sem.: - I

Subject: Advanced Studies & Research Methodologies (MAR10100006)

Marks: 60

Date: - 07/12/2019

Time: 3Hr.

Instructions to the Students

1. Each question carries 12 marks.
2. Attempt **any five** questions of the following.
3. Illustrate your answers with neat sketches, diagram etc., wherever necessary.
4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly

Q.1 1. The height of the students in a classroom is

2X6=12

- a. Continuous data
- b. Categorical data
- c. Discrete data
- d. All of the above

2. The following graphical method can only be used for representing data for one variable:

- a. Pie chart
- b. Bar chart
- c. Histogram
- d. Box plot

3. Mode represents

- a. Most repeated value
- b. Least repeated value
- c. The central value
- d. The value between the maximum and the minimum

4. Median is a measure of

- a. Dispersion
- b. Skewness
- c. Central tendency
- d. Flatness of the data

5. Purpose of doing research is

- a. To identify problem
- b. To find the solution
- c. Both a and b
- d. None of these

6. Which method can be applicable for collecting Qualitative Data?

- a. Artifacts (Visual)

- b. People
- c. Media products
- d. All of these

- Q.2 a. How does literature review help to identify a research problem? 12
 b. What are the steps in developing a research plan? Explain at least two of them in detail with examples.
- Q.3 Explain the various parts of writing a research report. 12
- Q.4 Write short notes on at least two methods of collecting data, for conducting research. 12
- Q.5 The municipality corporation of Aurangabad, wishes to develop a low-cost housing township. In this connection, it wants to gather the opinion of the people regarding their requirements and expectations for design, architecture and facilities. Based on the opinions of the public, the budget for the township would be worked out. Write a short note on the design of questionnaire for collecting the data, and how the data would be analyzed. 12
- Q.6 a. Explain the following terms: (i) mean, (ii) median, (iii) mode. 12
 b. Explain the following terms: (i) mean deviation, (ii) variance, (iii) standard deviation.