



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2018

Programme: BA PPA
Course Name: Developmental Theory
Course Code: BAPP 222

Semester –IV
Max. Marks : 100
Duration : 3 Hrs

No. of page/s: 3

Section A: In this section all questions are compulsory.

2x10

1. A sociologist chose 300 students at random from each of the two school and asked each student how many sibling he or she has. The results are shown in the table below:

Number of Siblings	St. Joshep School	St. Xavier's School
0	120	140
1	80	110
2	60	30
3	30	10
4	10	10

There are total 2400 students at St. Joshep School and 3300 students at St. Xavier's School. What is the median number of siblings for all the students surveyed?

- a. 0 b. 1 c. 2 d. 3 e. 4

2. The arithmetic mean of 6, 19 and x is 19. Find the value of x.

- a. 19 b. 25 c. 31 d. 32 e. 37

3. 10, 18, 4, 15, 3, 21, x

If x is the median of 7 numbers listed above, which of the following could be value of x?

- a. 4 b. 5 c. 8 d. 9 e. 14

4. Determine the median and modal values for the set: [73.8, 126.4, 40.7, 141.7, 28.5, 237.4, 157.9]
5. 21 bricks have a mean mass of 24.2 kg, and 29 similar bricks have a mass of 23.6 kg. Determine the mean mass of the 50 bricks.
6. The frequency distribution given below refers to the heights in centimetres of 100 people. Determine the mean value of the distribution, correct to the nearest millimetre.
150–156 5,
157–163 18,
164–170 20
171–177 27,
178–184 22,
185–191 8

7. Determine the mean, median and modal values for the following set:

[4.72, 4.71, 4.74, 4.73, 4.72, 4.71, 4.73, 4.72]

8. Which one of the following is the most comprehensive source of population data?

- a. Census
- b. National Sample Surveys
- c. Demographic health Surveys
- d. National Family Heath Surveys

9. Field work based research is classified as

- a. Historical
- b. Empirical
- c. Biographical
- d. Experimental

10. Identify the personal data-----

A. Marital status

B. Geographical characteristics

C. Occupation pattern

D. District

Section B- Sort Questions.

5M * 4Q = 20 M

Answer any FOUR.

1. List out the common errors made in Literature Review
2. Plagiarism
3. Sampling Design
4. Hypothesis
5. Sampling Bias
6. Need of Objectives in Research

Section C-Descriptive type questions

15M x 2Q = 30M

Answer any TWO

1. Discuss the components of Research Proposal. Differentiate between research Proposal and research report.
2. Define Stratified random Sampling. Discuss all the Advantages and disadvantages of Stratified random sampling.
3. Discuss the types of Non-Probability Sampling with suitable examples.

Section D-Analytical type Questions. Answer any TWO

15Mx2Q =30M

1. Ethics in Research. Substantiate with examples.
2. "Research is much concerned with proper fact finding, analysis and evaluation." Do you agree with this statement? Give reasons in support of your answer
3. What are the guiding considerations in the construction of a good questionnaire? Explain. Discuss the merits and limitations of Questionnaire method