BA PSYCHOLOGY

SECOND SEMESTER

Research Methodology & Statistics -II

BPY- 204

Duration: 3 Hrs.   Marks: 70

$$\left\{ \begin{array}{l} \text{PART : A (OBJECTIVE)} = 20 \\ \text{PART : B (DESCRIPTIVE)} = 50 \end{array} \right\}$$

[PART-B : Descriptive]

Duration: 2 Hrs. 40 Mins.   Marks: 50

[Answer question no. One (1) & any four (4) from the rest]

1. In the army general classification test the distribution is normal   5+5=10
   essentially with a mean of 100 and a SD of 20.
   a. What percentage (%) of score lie between 85 and 125.
   b. The middle 60% fall between what two points.

2. What are the two broad purposes of chi square test? Compute x^2 for the   2+5+3
   following table and test its significance at 0.05 and 0.01 levels?   =10

	Favour	Against
Public School	12	6
Govt. School	2	10

3. i) Given M=26.40, σ =5.20 and N=100. Test the significance of mean at   5+5=10
       0.05 and 0.01 levels?

   ii). The scores obtained for the two groups are as follows –
       Experimental group : 115, 112, 109, 112, 117
       Control group: 110,112, 95, 105,111,97,112,102
       Compute the means for both the groups and test the significance of
       the difference between these two means.

4. (i) Compute the correlation between the two sets of scores given below   5+5=10
by taking deviations from the means of the two series.

Subject	Test1 X	Test 2 Y
A	50	22
B	54	25
C	56	34
D	59	28
E	60	26
F	62	30
G	61	32
H	65	30
I	67	28
J	71	34
K	71	36
L	74	40

(ii) Compute one-way analysis of variance for the scores given below

Class 1 (N_1=6)	Class 2 (N_2=10)
28	20
35	16
32	25
24	34
26	20
35	28
	31
	24
	27
	15

5. What do you mean by research design? Discuss with its characteristics.   2+3+5
Why research design is important for a researcher.   =10

6. Discuss the main sources of a research problem. What are the important   5+5=10
considerations in selection of a problem?

7. How you formulate a good hypothesis? Discuss the main functions of a   5+5=10
hypothesis.

8. What is a experimental research design? Write about the factorial   4+3+3
research design and quasi-experimental research design.   =10

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BA PSYCHOLOGY

SECOND SEMESTER

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BPY- 204

Duration: 20Mnts.

Marks: 20

[PART-A : Objective]

Choose the correct answer from the following:

1×20=20

1. No research is possible
   a. Without applying scientific method
   b. Without using statistical techniques
   c. Without formulating a hypothesis
   d. All of these

2. Problem of a research can be identified and selected
   a. By surveying the literature
   b. By coming across a real problem in the field
   c. By stdying fundamental researches
   d. All of these

3. A research is
   a. A goal directed activity
   b. An effort to formulate new laws and principles or their applications
   c. A solution to the problem, local or universal
   d. All of these

4. All of the following are characteristics of a research problem except
   a. Problem is new
   b. Problem will satisfy the mind of the researcher
   c. Problem is feasible for the researcher
   d. Problem is socially significant

5. Which of the following variable is manipulated by the researcher
   a. Independent variable
   b. Dependent variable
   c. Continuous variable
   d. Discrete variable

6. Criterion of formulating a hypothesis is that
   a. They can be verified after experiment
   b. They should specify the dependent and independent variables
   c. They should be closer to the known facts
   d. All of these

7. Experimental researches are superior to other studies because
   a. They can be replicated to verify the result
   b. They will always give correct result
   c. Subjectivity does not have any role to play here
   d. All of these

8. Review of related literature helps the researcher
   a. To avoid duplication
   b. To find the gap between different facts
   c. To determine the limits of his field of research
   d. All of these

9. Which of the following is an elaborated form of the title
   a. Statement of problem
   b. Hypothesis
   c. Objectives
   d. None of the above

10. Which of the following is the best method of defining a problem
    a. Conceptual method
    b. Logicical definition
    c. Operational definition
    d. Idealistic definition

11. A measure based upon the entire population is called
    a. Statistic.
    b. Parameter
    c. Inferences
    d. Generalization

12. Which one of the following is a probability sampling method
    a. Systematic
    b. Saturation sampling.
    c. Area or cluster sampling.
    d. None of these

13. The normal probability curve is
    a. Skewed
    b. Peaked
    c. Flattened
    d. Perfectly symmetrical.

14. The NPC curve was discovered by
    a. Karl Pearson.
    b. Spearman.
    c. Fisher.
    d. Laplace and Gauss.

15. In positive skewness the curve inclines more to the
    a. Right.
    b. Left
    c. Flate
    d. Peaked

16. A frequency distribution is said to be platykurtic when it is
    a. More peaked than the normal.
    b. More flat than the normal.
    c. Neither too flatten nor too peaked.
    d. Bilaterally symmetrical

17. Chi-square test is a
    a. Parametric test.
    b. Z test
    c. T test
    d. Non parametric test

18. The correlation between two sets of measure or variables are said to be positive when
    a. An increase (or decrease) in one corresponds to an increase (or decrease) in the other.
    b. An increase corresponds to a decrease and a decrease corresponds to an increase.
    c. There exists no relationship between them.
    d. Only high relationship exists between them.

19. The range -1.00 in a coefficient of correlation indicates
    a. Perfect positive correlation.
    b. Zero correlation.
    c. Perfect negative correlation.
    d. Intermediate correlation.

20. One of the method of maintaining randomness in sampling plan is
    a. Accessibility of the elements.
    b. Fishbowl Draw.
    c. Size of the population.
    d. Cost incurred in obtaining the elements.

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UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA

Question Paper CUM Answer Sheet

[PART (A) : OBJECTIVE]

Course : ....

Semester : .... Roll No : ....

Enrollment No : .... Course code : ....

Course Title : ....

Session : .... 2016-17 .... Date : ....

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Instructions / Guidelines

➤ The paper contains twenty (20) / ten (10) questions.
➤ The student shall write the answer in the box where it is provided.
➤ The student shall not overwrite / erase any answer and no mark shall be given for such act.
➤ Hand over the question paper cum answer sheet (Objective) within the allotted time (20 minutes / 10 minutes) to the invigilator.

Full Marks	Marks Obtained	Remarks
20		