



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.A. Honours Part-III Examination, 2022

PSYCHOLOGY

PAPER-VIII

STATISTICS FOR PSYCHOLOGICAL RESEARCH

Time Allotted: 4 Hours

Full Marks: 100

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.
All symbols are of usual significance.*

GROUP-A

Answer the following questions

16×4 = 64

1. Define variables. What is the scale of measurement? Write about descriptive and inferential statistics. 2+6+8 = 16

OR

2. Find the value of P_{30} , P_{50} from the following score: 16

Score:	9-12	13-16	17-20	21-24	25-28
f :	2	3	3	7	8
Score:	29-32	33-36	37-40	41-44	45-48
f :	12	5	6	3	1

3. Define mean. What are the properties of mode? Discuss the different measures of central tendency. 3+3+10 = 16

OR

4. State the use of the measures of central tendency. Calculate the mean, median and mode from the following data: 6+10 = 16

Score:	0-20	20-40	40-60	60-80	80-100
f :	6	8	10	12	6

5. What is sampling? What are the characteristics of random sampling? Differentiate between probability and non-probability sampling. 3+6+7 = 16

OR

6. What is correlation? Find the correlation coefficient between the following two sets of score using the Spearman's rank difference method and also interpret the result. 2+14 = 16

Subjects	a	b	c	d	e	f	g	h	i	j
Text x	20		20	40	10	50	70	30	60	40
Text y	40	70	40	60	20	75	90	55	80	60

7. What are the properties of standard deviation? Calculate are standard deviation from the following grouped data: 6+10 = 16

Scores:	41-45	36-40	31-35	26-30	21-25	16-20	11-15	6-10
<i>f</i> :	1	5	10	12	10	5	3	3

OR

8. What are the factors affecting the shape of graphs? Draw a histogram and polygon of same axis from the following distribution. 6+10 = 16

Score:	95-105	85-95	75-85	65-75	55-65	45-55	35-45	25-35
<i>f</i> :	0	5	18	26	32	24	20	15

GROUP-B

9. Answer any *two* from the following: 10×2 = 20
- (a) Discuss the different scales of measurement. 10
 - (b) Explain the relevance of statistics in psychological research. 10
 - (c) Elaborate on the properties of mean, median and mode. 10
 - (d) Elucidate the properties of the range and semi-interquartile range. 10

GROUP-C

10. Answer the following questions: 2×8 = 16
- (a) Write a note on percentile rank. 2
 - (b) What is psychological research? 2
 - (c) What is qualitative data? 2
 - (d) What do you understand by the term ‘purposive sampling’? 2
 - (e) State the criteria of a good test. 2
 - (f) List the characteristics of a normal curve. 2
 - (g) Describe z-score with an example. 2
 - (h) Define descriptive statistics. 2

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