2014

formula NOITA SUDANI in the blank)

Find the e (rojeMe) lation of the scores

Paper: 5.5

Full Marks: 60

Immer Time: 3 hours

The figures in the margin indicate full marks for the questions

1. Answer the following:

 $1 \times 7 = 7$

- (a) Define mean.
 - (b) What is data?
 - (c) Define arithmetic mean (AM).
 - (d) What is discrete data?
 - (e) Define percentile rank. vas roweda .
- (f) What is positive correlation?
 - (g) Define quartile deviation.

2. Answer the following as directed:

 $2 \times 4 = 8$

- (a) Classify the variables (i) height, (ii) intelligence score, (iii) weight, and (iv) scores into continuous and discrete series of an achievement test.
- (b) Point out the range (lower limit to upper limit) of the following scores belonging to a continuous series:

14, 22, 46, 72

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- (c) The mean can be determined by the formula, Mark (Fill in the blank)
- (d) Find the average deviation of the scores 15, 10, 6, 8, 11 of a series.
- **3.** Answer any three of the following: $5 \times 3 = 15$
 - (a) Define median. When do we use median?
 - (b) Discuss different types of non- normal distribution.
 - (c) Discuss the process of computation of standard deviation by taking an example from an ungrouped data.
 - (d) What is linear correlation? Discuss its types.
 - (e) Given, mean = 49.5 and SD = 10. Change the score of 80 into Z score.
- 4. Answer any three of the following: 10×3=30
 - (a) Compute the median from the following frequency distribution:

Scores	f
70-71	swer (2) towa
68-69	edir (d) <mark>2</mark> n()
66-67	3
64-65	lligepoe scor
62-63	into8continu
60-61	an Zchieven
58-59	5
56-57	Point out th
54-55	ania da 2 innii
	75 On 100 100 On
50-51	1.
46, 72	N = 36

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(b) Compute the standard deviation from the following distribution:

	Scores	Ago and
ni	10125-129	dercenti
	120-124	25 pu2
	115-119	7
	110-114	6
	105–109	9
	100-104	9
	95-99	6
	90-94	4
	85-89	1
	80-84	1
		$\overline{N} = 49$

(c) Find rank correlation coefficient from the following data and interpret the results:

 Individuals
 : A B C D E F G H

 Marks in Hindi
 : 30 40 50 20 10 45 22 18

 Marks in English
 : 55 75 60 12 11 38 25 15

- (d) Given a normal distribution with a mean of 50 and SD of 15.
 - (i) What percent of the cases will be between 40 and 47?
 - (ii) What percent of the groups is expected to have scores greater than 68?

- (e) Compute the values of the following from the data given below:
 - (i) P_{30} and P_{70}
 - (ii) Percentile rank of the scores 14 and 26

Scores	f
37-39	2
34-36	10
31-33	15
28-30	19
25-27	16
22-24	8
19-21	9
16-18	7
13-15	3
10-12	1
	$\overline{N} = 90$

(f) Plot frequency polygon from the following data:

Scores	f
75-79	101
70-74	3
65-69	5
60-64	8
55-59	11
50-54	18
45-49	10
40-44	8
35–39	6
30-34	og 18/1/05
nd of	$\overline{N} = 75$