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67 (ERS)

[18–HRGPKAC–M3S]

MA 3rd Semester Exam., 2018

EDUCATION

[MED (S3) 09]

(Educational Research and Educational Statistics)

Full Marks : 80

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Answer any *five* from the following questions (each within *50* words) : 2×5=10

(a) Point out the differences between fundamental research and applied research.

(b) What is meant by directional and non-directional hypothesis?

(c) In what ways the validity of questionnaire be improved?

(d) What are the causes of sampling errors?

(e) Write a short note on 'point-biserial correlation'.

(f) Write five uses of regression.

2. Answer any *three* from the following questions (each within *150* words) : 4×3=12

(a) Enumerate the characteristics of a good hypothesis.

(b) Give an account of different quantitative researches.

(c) Highlight the various recording techniques of observation.

(d) Write the characteristics of the normal probability curve.

3. Answer any *three* from the following questions : 6×3=18

(a) Discuss the various steps followed in educational research. 6

(b) Define historical research. What steps will you follow to conduct a historical research? 2+4=6

(c) Calculate PE from the following data :

$r = \cdot 80$ and $N = 25$

Interpret the result. 4+2=6

(d) Discuss the concept of one-way ANOVA and two-way ANOVA. 6

4. Answer any *four* from the following questions : 10×4=40

(a) What is meant by research in education? Discuss the problems faced by the researchers in India. 3+7=10

(b) Define content analysis. Describe the steps involved in the process of content analysis. 3+7=10

(c) What is non-probability sampling? Discuss any two types of non-probability sampling along with their merits and demerits. 3+7=10

(d) What are the different types of questions? Discuss the steps preparing and administering the questionnaire. 3+7=10

(e) The value of regression equations is given below :

Prediction	X	Y
Mean	$M_X = 75 \cdot 28$	$M_Y = 43 \cdot 45$
	$\sigma_X = 10$	$\sigma_Y = 12$
	X (score) = 73	Y (score) = 45

Calculate the value of X on Y and Y on X. 10

Or

Given a distribution of scores with a mean of 12 and the σ of 6, what limits will include the middle 70% of the cases? Determine the limit by drawing NPC.

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