MASTER OF ARTS EXAMINATION, 2018

(1st Year, 2nd Semester)

EDUCATION

COURSE : XVI

(METHODOLOGY OF EDUCATIONAL RESEARCH

& EDUCATIONAL STATISTICS - II)

Time : Two Hours　　　　　　　　　　　　　Full Marks : 30

The figures in the margin indicate full marks.

1. Answer *any one* of the following questions :　　　12×1=12

   a) On an arithmetic reasoning test 31 ten-year-old boys and 42 ten-year-old girls made the following scores :

Groups	Mean	SD	N
Boys	40·39	8·69	31
Girls	35·81	8·33	42

   Is the mean difference in favour of the boys significant at the 0.05 level ? Calculate and interpret.　　12

   b) Find the coefficient of correlation from the following data :　　12

Achievement score	Normal and above intelligence	Below intelligence
100 – 109	6	1
90 – 99	8	1

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Achievement score	Normal and above int elligence	Below int elligence
80 – 89	24	4
70 – 79	28	12
60 – 69	30	11
50 – 59	28	6
40 – 49	12	5
30 – 39	7	5

2. Answer *any two* of the following questions in about 250 words each :   6×2=12

a) Discuss different scales of measurement with appropriate examples.   6

b) Discuss the process of analysing qualitative data.   6

c) Explain the characteristics and uses of NPC.   6

d) To the question "should women have competition with men in getting jobs", the replies received from a sample of two hundred subjects of both sexes were as follows :

Groups	Yes	No	Total
Males	34	46	80
Females	72	48	120

Were these responses independent or belong to a particular sex ?

3. Answer *any three* of the following questions in about 60 words each :   3×2=6

a) What is meant by partial correlation ?   2

b) Give two differences between parametric and non-parametric statistics.   2

c) In which case Type-II error occurs ?   2

d) Mention two uses of Histogram.   2

e) What is meant by standard error of mean ?   2