M. PHIL DEGREE END SEMESTER EXAMINATION - MARCH 2018

SEMESTER – **1: M.PHIL IN COMMERCE**

COURSE: **15MP1COMT2: QUANTITATIVE TECHNIQUES**

(For Regular - 2017 Admission)

Time: Three Hours   Max. Marks: 75

SECTION A

Answer *any Eleven* questions, each question carries *5* marks

1. Explain the functions of statistics.
2. What do you mean by measures of central tendencies?
3. Explain the procedure for testing of hypothesis
4. What are the advantages of non-parametric test?
5. Explain the uses of regression analysis
6. What is standard error? Explain its utility.
7. What is sampling distribution? Explain the commonly used sampling distributions.
8. What is Central Limit Theorem?
9. State the applications of chi square test.
10. State the requisites of a good measure of average.
11. State the mathematical properties of standard deviation.
12. What is F test? When is it used?
13. What is mean deviation? Explain its merits and demerits
14. What is SPSS? State the capabilities of SPSS in data analysis.   (5 x 11 = 55)

SECTION B

Answer *any Two* questions, each question carries *10* marks

15. Calculate Karl Pearson's coefficient of correlation

X	78	89	99	60	59	78	68	61
Y	125	137	156	112	107	132	123	108

16. Obtain regression equation Y on X and estimate Y when X=55 from the following

X	40	50	38	60	65	50	35
Y	38	60	55	70	60	48	30

17. The following data relate to the yield of four varieties of wheat each sown, on five plots find whether there is a significant difference between the mean yield of these varieties.

Plot	Varieties			
	A	B	C	D
I	99	103	109	104
II	101	102	103	100
III	103	100	107	103
IV	99	105	97	107
V	98	95	99	106

18. From the following details find out whether there is any association between passing the examination and studying in the day classes

Nature of Class	Result	
	Passed	Failed
Day Classes	10	20
Evening Classes	4	66

(10 x 2 = 20)

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