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Reg. No. : .....

Name : .....

Second Semester M.A. (Human Resource Management) Degree Examination, August 2015

HRM 2.2.3 : STATISTICS FOR MANAGEMENT

(2014 Admission)

Time: 3 Hours Max. Marks: 75

PART – I

Answer **all** the questions. **Each** answer not to exceed **50** words. **All** questions carry **equal** marks.

1. Define Statistics. State the major characteristics of Statistics.
2. Distinguish between Primary data and Secondary data.
3. What is a frequency distribution? State its components.
4. What are pie diagrams ? Mention two uses of pie diagram.
5. Define median and state its two merits.
6. What do you understand by standard deviation ?
7. Define correlation. State its different types.
8. What is a hypothesis ? State two sources of hypothesis.
9. What do you understand by level of significance ?
10. Define Chi-square. State its applications. **(10×2=20 Marks)**

P.T.O.

PART – II

Answer **any five** questions. **Each** answer not to exceed **500** words. **All** questions carry **equal** marks.

11. Explain briefly the main functions of Statistics.

12. What is a bar diagram ? Explain the various types of bar diagrams.

13. What do you understand by central tendency ? What are the merits and demerits of arithmetic mean ?

14. What is meant by correlation ? Explain briefly the different types correlation.

15. Find the average wages of a worker from the following:

Wages in Rs. Above :	0	10	20	30	40	50	60	70
No. of Workers :	650	500	425	375	300	275	250	100

16. Calculate the standard deviations of the following two series and state which series has more variability ?

A :	48	46	31	75	52	66	65	60	59	58
B :	68	78	54	44	65	93	46	89	87	56

17. During 2010-2014, the number of students in University A are as follows : Represent the data by a suitable diagram.

Year	**Arts**	**Science**	**Management**	**Total**
2010-11	1800	900	400	3100
2011-12	2000	1000	500	3500
2012-13	2600	900	700	4200
2013-14	3100	950	750	4800

18. What is ANOVA ? How and why is it made ? **(5×5=25 Marks)**

PART – III

Answer **any two** questions. **Each** answer not to exceed **1200** words. **All** questions carry **equal** marks.

19. Describe the various methods of graphical and diagrammatical representation of data.

20. Explain in detail the different steps involved in the process of testing of hypothesis.

21. Find the regression equations from the following data :

X :	25	28	35	32	31	36	29	38	34	32
Y :	43	46	49	41	36	32	31	30	33	39

Also calculate : a) The coefficient of correlation between X and Y.

22. The following table gives the classification of 100 workers according to sex and the nature of work. Test whether nature of work is independent of the sex of the worker.

	Skilled	**Unskilled**
Males	40	20
Females	10	30

(2×15=30 Marks)
