Max. M	Marks: 40 Class: IV sen	Class: IV sem	
Note: Solve Any TWO FULL Questions.  Use of statistical tables permitted.			
Q.No	Questions		Marks
10	Describe how skewness is used to characterize data? Mention the measures of skewness.		4
<u>1</u> b	Prepare a blank table in which the following types of information can be shown properly  (i)Total number of workers by sex.  (ii)Classification of male and female workers by skill, that is skilled, semi-skilled and un-skilled.  (iii)Classification of workers according to broad age groups, that is, below forty years and above forty years.		4
Jk ,	Given the following data  Performance evaluation 28 33 21 40 38 46  Aptitude test score 74 87 69 69 81 97  Prior experience (Years) 5 11 4 9 7 10  (i)Obtain a model for performance evaluation and determine its variation explained by the model.  (ii)If an employee scored 83 on the aptitude test and had a prior experience of seven years. What performance evaluation would be expected?		12
24	In a partially destroyed laboratory record, the lines of regression of y on x and x on y were available as $4x-5y+33=0$ and $20x-9y=107$ . Calculate (i) Mean (ii) coefficient of correlation between x and y.		4
2b	Does this data set come from the normal distribution? Discuss.  3.89 4.75 6.33 4.75 7.21 5.78 5.80 5.20 6.64		8
<b>2</b> c	A semi-commercial test plant produced the following of th	L.7 L.4	8
3a	Consider the following data. They represent concentration of arsenic in drinking water to 10 communities around Phoenix and 10 rural communities in Arizona. Discuss the variances of concentration of arsenic in both the populations by Q-Q plot.  Phoenix 3 7 25 10 15 6 1 25 15 7		4
	Arizona         48         44         40         38         33         21         20         12         1         18           Following table gives the demand for TV sets in 7 towns		
3b	Population(lakh)         11         14         14         17         17         21         25           No of TV sets demanded         15         27         27         30         34         38         46		6
	Estimate the demand for TV for a city with a population of 20 lakhs.		
3с		66   199 75   486 4	10
(III) Prention the news			

Date: 24-02-2020

**Duration: 75 mins**