Q.P. Code: 19MB9004								<b>R19</b>							
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1 mile	. •						S	БЕСТ	ION –	A			ivit		
						(Answer	all Fi	ve Un	its 5 x	10 =	50 N	Iarks)			
								$\mathbf{U}$	NIT-I						
1	Ι	Defi	ne st	atisti	ics. Exp	lain the va	arious	bran	ches re	lated t	to sta	tistics.			<b>10M</b>
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2	2 1	l	Expla	ain t	the appli	ications of	statis	stics.							5M 5M
	l	)	vv na	lale	the min	Itations of	statis		ITT_IT						5111
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4	I	Find	l the (	Quai	rtile Dev	viation for	tion for the data given below?								10M
				X	0-10	10-20	20-	-30	30-40	40	-50	50-60	60-70	)	
				F	7	8	1	2	15	(	6	4	3		
								TIN	тт тт						
5			Give	a hr	ief evol	anation al	out c	UIV lassif	ication	and to	abula	tion of	data		5M
<ul> <li>a Give a oner expranation about classification and tabulation of data</li> <li>b Explain different types of Graphs in data representation with examples</li> </ul>						5M									
			<b>r</b>				r	(	OR				r		
6	8	ı	Draw	/ les	s than a	nd more tl	han O	oives	from t	he dat	a oiv	en belo	W		5M
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						20-30			8						
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						50-60			25						
						60-70			16						
						70-80			8						
						80-90			5						
						90-100			2						
	ł	)	What	t are	the met	thods and	tools	that a	re avai	lable f	for d	ata class	ificatio	n and	5M

tabulation?

7 aWhat is the Meaning of regression analysis? Explain its utilities.5MbHow do you interpret the regression coefficients?5MOR

9

6

8

8 Obtain the regression equations for the following?

9	Define Hypothesis? Explain the process of hypothesis testing? A sample of 400	<b>10M</b>
	individuals is found to have a mean height of 67.47 inches. Is it reasonable to	
	regard the sample drawn from the large population with mean height 67.39 inches	
	and standard deviation of 1.3 inches. Test at 1% level of significance	

UNIT-V

4 2 5 4 6

10 9 7

X 8

Y 2 3

10 The table given below shows the data obtained during outbreak of smallpox: 10

OR

	Attacked	Not attacked
		Total
Vaccinated	31	469
Not vaccinated	185	1315

Test the effectiveness of vaccination in preventing the attack from smallpox. Test your result with the help of  $\chi 2$  at 5 per cent level of significance.

## **SECTION – B**

(Compulsory Question)

1 x 10 = 10 Marks

**11**. In an anti malarial campaign, quinine was administered to 812 persons out of a total population of 3248. The number of fever cases is shown below.

Treatment	Fever	No fever
Quinine	20	792
No quinine	220	2216

***	<b>END</b>	***
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## UNIT-IV



**10M** 

**10M**