

| (iv) The complete idea of about distribution of data requires the following(s): <br> a) Measures of central tendency and Dispersion <br> b) Sknew ness <br> c)Kurtosis <br> d)All the above | 2 | CO 2 |
| :---: | :---: | :---: |
| (v) Two variables are said to be independent if <br> a) $\mathrm{r}=0$ <br> b) $r=+1$ <br> c) $r=-1$ <br> d) $\mathrm{r}=+0.5$ | 2 | CO 3 |
| (vi) The histogram is an effective graphical technique used to explain <br> a) Skew ness <br> b) Mean <br> c) Kurtosis <br> d) Both a and c | 2 | $\mathrm{CO1}$ |
| (vii) Which of the following(s) is a bar diagram <br> a) Deviation bar <br> b) Percentage bar <br> c)Subdivided bar <br> d) Multiple bar | 2 | CO1 |
| (viii) The probability of certain event is <br> a) 0 <br> b) always 1 <br> c) near to 1 <br> d) can't determined | 2 | $\mathrm{CO4}$ |
| (ix) Mean deviation is least from <br> a) Mean <br> b) Mode <br> c) Median <br> d) All the above | 2 | $\mathrm{CO1}$ |
| (x) Deviation bar diagrams is used for representing <br> a) Net profit <br> b) Net Loss <br> c) Net excess or deficit | 2 | $\mathrm{CO1}$ |


|  | d) All the above |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SECTION B <br> (Attempt any Five questions) |  |  |  |  |  |  |  |  |
| 2. | In a throw of two dice, what is the probability of getting <br> (i) the sum of numbers on both the dice to be 7 or 11 . <br> (ii) the total of numbers on both the dice to be more than 10 . |  |  |  |  |  | 6 | $\mathrm{CO4}$ |
| 3. | In a class of 50 students, 10 have failed and their average marks is 25 .The total marks secured by the entire class is 2810 . Find the average marks of those who have passed. |  |  |  |  |  | 6 | CO4 |
| 4. | A college dean is interested in learning about the average age of BBA students and selected 65 students.Define the following basic terms in this situation. <br> a) Population <br> b) Sample <br> c) Variable |  |  |  |  |  | 6 | CO2 |
| 5. | From the following data, findout which product is more stable in prices. |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Prices of product } \\ & \mathrm{A}(\mathrm{Rs}) \end{aligned}$ | 20 | $22$ | 19 |  | 16 | 6 | CO4 |
|  | Prices of product B (Rs) | 10 | $20$ | 18 | 12 | 15 |  |  |
| 6. | Draw a percentage bar diagram for the following data: |  |  |  |  |  | 6 | CO2 |
|  | Expenditure |  | Company A |  | Company B |  |  |  |
|  | Wages |  | 450 |  | 700 |  |  |  |
|  | Materials |  | 200 |  | 500 |  |  |  |
|  | Power |  | 75 |  | 350 |  |  |  |
|  | Maintenance |  | 80 |  | 175 |  |  |  |
|  | Profit |  | 195 |  | 275 |  |  |  |
|  | Total |  | 1000 |  | 2000 |  |  |  |



|  | y <br> Find the both regression lines. |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| 12. | The joint council of Economic Education conducted a test on basic economic concepts.The <br> following table gives the number of questions answered correctly. <br> $41,13,42,74,29,99,73,49,12,76,90,9,72,9,6,66,29,41,28,37,65,34,14,63,79,76,77,18,36,13,17$, <br> $15,14,17,15,54,17,50,11,32,17,93,92,16,7,30,9,19,17,71,19,43,76,50,51,25,28,19,18,11,62,8$ <br> (i) Draw relative frequency and percentage frequency distribution table. <br> (ii) For the above data prepare a cumulative frequency distribution table and draw the less <br> than ogive and more than ogive. | $\mathbf{1 0}$ | CO2 |



| b) Sknew ness <br> c)Kurtosis <br> d)All the above |  |  |
| :---: | :---: | :---: |
| (v) Two variables are said to be uncorrelated if <br> a) $r=0$ <br> b) $r=+1$ <br> c) $r=-1$ <br> d) $\mathrm{r}=+0.5$ | 2 | CO3 |
| (vi) The histogram is an effective graphical technique used to explain <br> a) Skew ness <br> b) Mean <br> c) Kurtosis <br> d) Both a and c | 2 | CO1 |
| (vii) Which of the following(s) is not a bar diagram <br> a) Deviation bar <br> b) Percentage bar <br> c)Subdivided bar <br> d) pie chart | 2 | CO1 |
| (viii) The probability of uncertain event is <br> a) o <br> b) always 1 <br> c) near to 1 <br> d) can't determined | 2 | CO4 |
| (ix) Mean deviation is least from <br> a) Mean <br> b) Mode <br> c) Median <br> d) None | 2 | CO1 |
| (x) Deviation bar diagrams is used for representing <br> a) Net profit <br> b) Net Loss <br> c) Net excess or deficit <br> d) All the above | 2 | CO1 |

## SECTION B

(Attempt any Five questions)



| 13. | The following table showing the wage distribution in a factory. Find mean, median and mode of wage. If the management of the factory wants to fix minimum wages per week, suggest an appropriate measure of central tendency. |  |  |  |  |  | 10 | CO2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weekly wages(Rs) | 0-100 | 100-200 | 200-300 | 300-400 | 400-500 |  |  |
|  | No. of employess | 14 | 25 | 27 | 24 | 15 |  |  |

