

U.G. 5th Semester Examination - 2021**STATISTICS****[PROGRAMME]****Skill Enhancement Course (SEC)****Course Code : STAT-G-SEC-T-1C****(MINITAB)****[PRACTICAL]**

Full Marks : 25(20+5)

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. The following observations are the weekly wages (in Rs.) of 30 workers chosen randomly from a factory:
830, 835, 890, 810, 835, 836, 869, 845, 898, 890, 820, 860, 832, 833, 855, 845, 804, 808, 812, 840, 885, 835, 836, 878, 840, 868, 890, 806, 840, 890.
 - i) Draw the box-plot of the data and comment.
 - ii) Test at 5% level of significance whether the mean weekly wage of workers of the factory can be taken to be Rs. 860.
2. Sixteen successive heats of a steel alloy are tested for hardness. The resulting data are shown below. Plot the control chart for mean and comment on the state

of control.

Heat	Hardness (coded)	Heat	Hardness (coded)
1	52	9	58
2	51	10	51
3	54	11	54
4	55	12	59
5	50	13	53
6	52	14	54
7	50	15	55
8	51	16	53

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| 3. | Practical Note-Book | 5 |
| 4. | Viva-voce | 5 |

[Internal Assessment: 5]

[Turn over]