**Sessional examination 2021**

**Subject- STATISTICS (PRACTICAL)**

**Paper- STA-HC-4036-P**

**Full marks- 20**

**Time- 2 hour**

**ANY ONE**

1. From the following data draw the $\overbar{X} $and R bar Charts and comment.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Data |  |  |  |
| Sl.NO |  |  |  |  |  |  |
| 1 | 620 | 684 | 666 | 769 | 839 | 686 |
| 2 | 501 | 585 | 524 | 585 | 655 | 668 |
| 3 | 673 | 701 | 636 | 567 | 622 | 660 |
| 4 | 646 | 626 | 572 | 628 | 632 | 743 |
| 5 | 494 | 984 | 659 | 643 | 660 | 640 |
| 6 | 634 | 755 | 625 | 582 | 685 | 555 |
| 7 | 619 | 710 | 664 | 693 | 773 | 534 |
| 8 | 631 | 723 | 614 | 535 | 551 | 570 |
| 9 | 482 | 791 | 533 | 612 | 497 | 499 |
| 10 | 706 | 524 | 626 | 563 | 663 | 754 |
| 11 | 530 | 432 | 379 | 690 | 724 | 536 |
| 12 | 485 | 497 | 608 | 393 | 648 | 729 |
| 13 | 585 | 535 | 762 | 588 | 625 | 737 |
| 14 | 462 | 490 | 635 | 587 | 553 | 673 |
| 15 | 722 | 608 | 665 | 587 | 531 | 765 |

1. Construct the control chart for fraction defective.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No.of inspected | 502 | 530 | 480 | 510 | 540 | 520 | 580 | 476 | 570 | 520 | 510 | 536 |
| No.of defective | 18 | 13 | 13 | 15 | 21 | 17 | 28 | 10 | 23 | 10 | 15 | 22 |