

Department of Chemistry

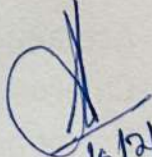
Dr. J. N College Rasalpur, Balesore

**1. List of equipment:-**

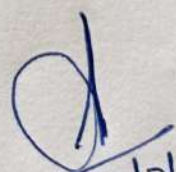
1. Digital automatic melting point apparatus (1 pcs)
2. Digital automatic boiling point apparatus (1 pcs)
3.  $\mu$ c PH system with 3point calibration for PH and L.C.D display (1pcs)
4. Magnetic stirrer with digital temp. controller(2lit. capacity) ( 1 pcs)
5. Thin layer chromatography(TLC) (1pcs)
6. Variable Volume single channel autoclavable micropipette(2pcs)
7. Thermometer(upto 300 $^{\circ}$ capaity)(2pcs)
8. Thermometer with 0.5 $^{\circ}$ c measurement used in calorimeter(2 pcs)
9. Fish tail burner (2pcs)
10. Burette (1doz)
11. Tongs for crucible (1doz)
12. Tongs for beaker and flasks (1doz)
13. Nichrome wire
14. Bunsen burner(1doz)
15. Double blue glass(6pair)
16. Kipps apparatus(made of glass 500ml.borosil)(1pcs)

**2. List of chemicals :-**

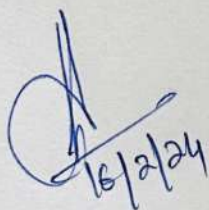
1. P- nitro acetainilide
2. Ethyl acetate
3. Acetic anhydride
4. Sodium acetate crystal
5. Acetanilide
6. Methyl acetaqte
7. Ascorbic acid
8. Iodine crystal
9. M. Phosphonic acid
10. 2,6- dichloro phenol iodophenol
11. Methyl orange indicator
12. EDTA 10%

  
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13. Eriochrome Black T
14. Methylene blue solution
15. Mercurous chloride
16. Mercuric chloride
17. Sodium chloride
18. Benzoic acid
19. Chromic acid
20. Ferric oxide
21. Ferrous ammonium sulphate
22. Hydrogen peroxide
23. Sodium bicarbonate
24. Acetic acid
25. Phenol
26. Disodium hydrogen ortho phosphate
27. Acetone
28. Benzene
29. Sodium sulphate
30. Tin metal powder
31. Cupric carbonate
32. Copper sulphate
33. Silver nitrate
34. Cobalt nitrate
35. Potassium hydroxide
36. Hydroxylamine HCl
37. Stannic chloride
38. Cadmium chloride
39. Resorcinol
40. Phenyl hydrazine HCl
41. Acetyl chloride
42. Ceric ammonium nitrate
43. Acetamide
44. Chlorobenzene
45. Bromobenzene
46. Thio urea

  
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47. Phenyl urea
48. Salicylic acid
49. Strontium nitrate
50. Potassium metal
51. Nitric acid
52. Hydrochloric acid
53. Sulphuric acid
54. Ammonia solution
55. Benzoyl chloride
56. Aniline
57. Aluminium chloride
58. Aluminium sulphate
59. Ammonium sulphate
60. Ferrous sulphate
61. Ferrous sulphate

  
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Bimatencha Jemel  
Devon in chem  
12/2/24

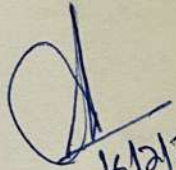
DEPT. OF ZOOLOGY  
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1. Olympus ex Bino LED Japan Binocular Research Microscope with plan Infinity corrected objective.

2. Aretoclave Mine SOKO Lab Infrared Sterilizer Areto clave sterilizes

3. DO meter Ecotron Dissolved Oxygen Meter

Laxmidhar Sethi  
Demonstrator in zoology

  
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## LIST OF EQUIPMENTS AND CHEMICALS


### DEPT. OF BOTANY

#### DR J. N. COLLEGE RASALPUR

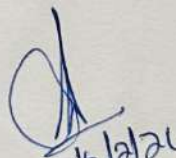
1. Lenovo ideacentre Core i7 (16 GB DDR4/1024 GB SSD/Windows 11 Home/27 Inch Screen/IdeaCentre AIO 3 27IAP7) with MS Office (White, 61.3 cm x 20 cm x 47.2 cm, 8.82 Kg) - 1
2. Epson EH-TW750 Full HD 1080p Home Cinema Projector WITH SCREEN - 1
3. HP Laser MFP 1188fnw, Wireless, Print, Copy, Scan, Fax, 40-Sheet ADF, Hi-Speed USB 2.0, Ethernet, Up to 21 ppm, 150-sheet Input Tray, 100-sheet Output Tray, 1-Year Warranty, Black and White, 715A5A - 1

### LIST OF CHEMICALS

1. ALPHA NAPHTHAL - 2 (Bottle)
2. SULPHURIC ACID - 2
3. CUPPER SULPHATE - 2
4. Na-K TARTARTE - 2
5. NH<sub>4</sub>SO<sub>4</sub> SOLUTION - 2
6. SODIUM CARBONATE METHYL - 2
7. MITHAIL ORANGE OR PHENOL PHTNALEIN - 2
8. ETHANOL - 2
9. ACETONE - 2
10. IODINE SOL.

  
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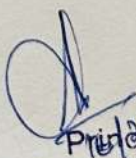
- 11.SAFRANIN - 2  
12.CRYSTAL VIOLET - 2  
13.ACETIC ACID - 2  
14.GLACIAL ACETIC ACID - 2  
15.ALCOHAL - 10  
16.CHLOROFORM - 2  
17.hydrochloric acid - 2  
18.SUCROSE SALT - 2  
19.liquid paraffin - 2  
20.Sodium citrate - 2  
21.Sodium hydroside (NaOH)  
22.tartarate  
23.soluble starch  
24.safranine solution - 5  
25.Glyceral AR-500ml - 10  
26. Acetone B 500ml - 2  
27. spirit - 10  
28. CANADABALSAN  
29. Hemato xylene - 5  
30.Acetocarmine - 5

  
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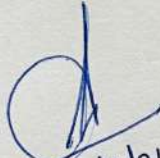
31. Universal indicator

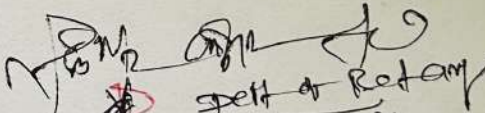
EQUIPMENT

1. UV florescent tube - 1
2. weight boxces - 1
3. spirit lamp - 10
4. twing cuttor (8,9) - 1
5. HAEMOCYTOMETER - 1
6. Ocular micrometer - 1
7. Grass chear - 1
8. Hedge shear - 1
9. Garden trowel - 1
10. weeding fork - 1
11. conductivity bridge cell and metre - 1
12. Herbarium prets - 1
13. Herbarium cabinat - 1
14. dessicator cabinat - 1
15. warburg's monometer - 1
16. petternekofer's appartus - 1
17. Ganangs potometer - 10
18. osmotic pressure apparatus - 10

  
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- 19. electronics balance -4
- 20. wilmotts bubbler -4
- 21. T/H apparatus - 5
- 22. Soil thermometer - 1
- 23. Maximum and Minimum thermometer - 1
- 24. psychrometer - 1
- 25. Photometer - 1
- 26. cup anemometer - 1
- 27. Raingauge

  
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Dept. of Botany  
12.2.24.




## LIST OF EQUIPMENTS

DEPT. OF PHYSICS

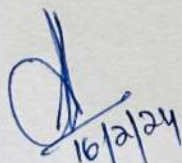
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1. To study the characteristics of a series RC Circuit. (OMEGA / INDOSAW)
2. To determine wavelength of sodium light using Newtons Rings. (OMEGA / INDOSAW)
3. To determine the Coefficient of Thermal Conductivity of a bad conductor by Lee and Charltons disc method. (OMEGA / INDOSAW)
4. To determine J by Calorimeter. (OMEGA / INDOSAW)
5. To study the Colpitt's oscillator. (OMEGA / INDOSAW)
6. To determine (1) wavelength and (2) angular spread of He-Ne laser using plane diffraction grating. (OMEGA / INDOSAW)
7. Half Adder, Full Adder and 4-bit binary Adder. (OMEGA / INDOSAW)
8. Measurement of susceptibility of paramagnetic solution (Quincks Tube Method). (OMEGA / INDOSAW)
9. To measure the band gap of a given semiconductor by four-probe method. (OMEGA / INDOSAW)
10. To verify the law of Malus for plane polarized light. (OMEGA / INDOSAW)
11. To determine the Boltzmann constant using V-I characteristics of PN junction diode. (OMEGA / INDOSAW)
12. To determine the Temperature Coefficient of Resistance by Platinum Resistance Thermometer (PRT). (OMEGA / INDOSAW)

  
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## DEVICES

1. GRATING LENS
2. MULTIMETER -2
3. LIGHT DETECTOR-2
4. STOP WATCH -2
5. PRISM-2
6. MULTIPUL SCREW DRIVER-1
7. (COMPUTER) - <sup>✓</sup>Lenovo <sup>✓</sup>IdeaCentre AIO 3 Core i5 (8 GB DDR4/512 GB SSD/Windows 11 Home/23.8 Inch Screen/11th Gen Intel i3 23.8" FHD IPS 3-Side Edgeless All in One Desktop) with MS Office (Black, 43.3 cm x 18.5 cm x 54.1 cm, 6.81 kg)



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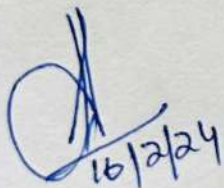
Dr. Munjamal  
lect. in physics  
12.02.24

Chiranjib Biswal,  
Demo. in phy.  
12.02.24

**DEPT. OF MATHEMATICS**

**DR J. N. COLLEGE RASALPUR**

1. (COMPUTER) -Lenovo IdeaCentre AIO 3 Core i5 (8 GB DDR4/512 GB SSD/Windows 11 Home/23.8 Inch Screen/11th Gen Intel i3 23.8" FHD IPS 3-Side Edgeless All in One Desktop) with MS Office (Black, 43.3 cm x 18.5 cm x 54.1 cm, 6.81 kg)
2. PRINTER -HP Laser MFP 1188fnw, Wireless, Print, Copy, Scan, Fax, 40-Sheet ADF, Hi-Speed USB 2.0, Ethernet, Up to 21 ppm, 150-sheet Input Tray, 100-sheet Output Tray, 1-Year Warranty, Black and White, 715A5A

  
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Gopinath Swain

H.O.D. Mathematics  
12.02.24