**Requirement in the Department of Chemistry for SEM-1 and 2**

**Reagents (Each of single quantity)**

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| 1. 4-nitrobenzoic acid 500 g | 39. Pthalimide 500 g |
| 2. 4-aminobenzoic acid 500 g | 40. Methyl salicylate 500 ml  |
| 3. 4-anisidine 250 g | 41. Toluene 500 ml |
| 4. Benzoic acid 500 g | 42. Potassium permnganate 500 g |
| 5. Naphthalene 250g | 43. Sodium metasulphate 500 g |
| 6. Urea 500 g | 44. Hydrated sodium acetate 500 g |
| 7. Phenyl benzoate 100 g | 45. Cetyl methyl ammonium chloride |
| 8. p-Toluidine 500 ml | 46. Phenol 500 g |
| 9. Benzophenone 500 g | 47. 3-dinitro benzene 500 g  |
| 10. 4-chlorobenzoic acid 500 g | 48. Sodium sulphide 500 g |
| 12. Cyclohexane 500 ml | 49. Sulphur powder 500 g |
| 13. Ethyl methyl ketone 500 ml | 50. Methyl orange 25 g |
| 14. Cyclohexanone 500 ml  | 51. Glacial acetic acid 500 ml |
| 15. Nitrobenzene 500 ml | 52. Bleaching powder 500 g |
| 16. Acetylacetone 500 ml | 53. Sodium hydrogen sulphate 500 g |
| 17. Anisole 500 ml | 54. Stannous chloride 100 g |
| 18. Crotonaldehyde 500 ml | 55. Mercurous chloride 25 g |
| 19. Mesityl oxide 500 ml | 56. Potassium bromated 500 g |
|  20. Glucose 500 g | 57. Xylenol orange indicator 5 g |
| 21. Sucrose 500 g | 58. Potash alum 500g |
| 22. Formic acid 500 ml | 59. Steel 100 g |
| 23. Acetic acid 500 ml | 60. Brass 100 g |
| 24. Methyl alcohol 500 ml | 61. Cement 1 kg |
| 25. Ethyl alcohol 2 L | 62. Hexamine 500 g |
| 26. Acetone 2.5 L | 63. Bromocresol green 5 g |
| 27. Dimethyl aniline 500 ml  |  |
| 28. Acetophenone 500 ml |  |
| 29. Bezaldehyde 500 ml |  |
| 30. Phenyl hydrazine hydrochloride 100 g |  |
| 31. Fehling solution A 500 ml |  |
| 31. Fehling solution B 500 ml |  |
| 32. Zinc chloride 500 g |  |
| 33. Acetic anhydride |  |
| 34. Acetamide 500 g |  |
| 35. Bromine 100 ml |  |
| 36. Sodium hydrogen sulphate (NaHSO4) 500g |  |
| 37. Benzamide 100 g |  |
| 38. 4-bromo acetanilide 100 g |  |

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| **GLASSWARE AND ACCESSORIES** | **Quantity** | **INSTRUMENT** | **Quantity** |
| 1. Distillation set (condenser + adapter)  | 1 | 1. Melting point apparatus | 3 |
| 2. Reflux water condenser (6 bulb, B24 joint) | 20 | 2. Magnetic stirrer with hot plate | 3 |
| 3. Round bottom flask (B24 joint, 100 ml) | 10 | 3. Vacuum pump for filtration | 1 |
| 4. Round bottom flask (B24 joint, 250 ml) | 30 | 4. Heating mantle (250 ml) | 2 |
| 5. Filtering conical flask 500 ml | 2 | 5. Digital Polarimeter  | 1 |
|  6. Buchner funnel size 3" | 2 | 7. weighing machine (precision up to 3 decimal, max wt.-200 g) | 2 |
| 7. Sintered bed crucible No-4, 50 ml | 10 | 8. Calorimeter | 1 |
| 8. Stalagmometer (at least 15 drops/min) | 30 | 9. Thermometer (from ambient temperature to 300 degree Celsius), alcoholic | 5 |
| 9. Ostwald Viscometer (80-120 s) | 15 | 10. Water bath (temperature controlled, at least 6 conical can be used at a time)  | 1 |
| 10. Rubber tube (inner diameter: 6mm) | 1 coil | **COMPUTER AND RELATED ACCESSORIES** |
| 11. Volumetric flask 1 L | 5 |
| 12. Conical flask 100 ml | 20 | 1. UPS  | 4 |
| 13. Conical flask 500 ml | 10 | 2. Desktop PC ( 64 bit, 1 TB HDD, 8 GB memory, Intel i5 Processor)  | 1 |
| 14. Rubber cork (to put on the mouth of 100 ml conical flask) | 40 | 3. Printer + scanner + Xerox (combined), Laserjet | 1 |
| 15. Glass tube (inner diameter: 5 mm, length: 2 ft) | 1 kg | 4. Projector | 1 |
| 16. Glass Apparatus for phenol-water phase experiment | 3 set |
| 17. Bunsen burner with stopper | 24 |