

# Sant Maalik Memorial Institute

B. Ed. College

College Add. : At & P.O.- Bazaura, P.S. - Dobhi, Gaya - 824201  
City Office :- 73, Swarajpuri Road, Gaya - 8230018

## Psycho Lab Experiments

- 1 Vocational Interest Report
  - 3 Bell adjustment Inventory by Sharma
  - 5 Teacher effectiveness test by P. Kumar
  - 7 General mental ability test - Jalota
  - 9 Social behavioural test
  - 11 Stress test for teachers
  - 13 Work value scale
  - 15 Personality test
  - 17 Rorschach ink blot test
  - 19 Thermatic Apperception test by Henry Murray
  - 21 Creativity Test
  - 23 Teaching aptitude test Battery  
Alexander's Battery of performacne test
  - 25 (Pass along test,block design test, cube construction test)
  - 27 Projective Test of Achievement by P. Deo
  - 29 Children's Appreciation Test
  - 31 Kakkar: Interest in Teaching Scale
  - 33 Ojha-Bell's Adjustment Inventory
  - 35 Draw- A man Test
  - 37 Mirror Drawing Simple with manual
- Psycho Lab Apparatus**
- 1 Maze Punch board
  - 3 Card Sotting tray
  - 5 Weber's Weight
  - 7 Stop watch
  - 9 Metronome electronic
  11. kymograph with Drum mains & Battery
  - 13 Screen
  - 15 Scientific calculator
  - 17 Tachistoscope

## Physical Science Test

- 1 To verify the law of reflection of light using plane mirror
- 3 To trace the path of ray of light passing through a rectangular glass slab and measure the angle of incidence and angle of emergence.
- 5 To trace the path of a ray of light passing through a glass prism and measure the angle of deviation.
- 7 To measure diameter of small spherical/ cylindrical body using a Vernier callipers.
- 9 Using a simple pendulum Plot L-T and L-T<sup>2</sup> graphs.
- 11 Hence find the effective length of a seconds pendulum
- 13 To find the PH of given sample (4-5) of solids/fruits juices using PH paper.
- 15 To identify bleaching powder from given samples of chemicals (4 samples).
- 16 To carry out the reactions of an acid (HCl) with (i) Litamecs solution (Blue & Red), (ii) Zinc metal (iii) Sodium carbonate (iv) sodium hydroxide.
- 2 Mathematical Interest Inventory
- 4 Rabe Achievement motivational test
- 6 Maudseley Personality test
- 8 Moral Judgement test
- 10 Stress test for students
- 12 Human rights attitude scale
- 14 Scientific creativity test
- 16 Test of intelligence ability
- 18 Level of aspiration test
- 20 Value Scale
- 22 Verbal concept test
- 24 Problem solving ability test
- 26 Group Test of Intelligence by Jalota
- 28 Personality Differential
- 30 Aptitude Test Davis Battery
- 32 Teacher's Job Satisfaction Scale
- 34 Sinhas Comprehensive Anxiety Scale
- 36 Figner Dexterity Test with Ins and manual
- 38 Value Orientation Scale
- 2 Memory drum apparatus
- 4 Aesthesiometer
- 6 Vernier Chronoscope with R.T. apparatus
- 8 Stop watch digital
- 10 Ergograph Mains & Battery
- 12 Pneomograph with Mary's tambour
- 14 Letter Puch Board
- 16 Mular-Iyer illusion Board
- 18 Mirror drawing apparatus
- 2 To determine the focal length of a concave n obtaining of a distant oject.
- 4 To determine the focal length of a convex le focussing a distant object
- 6 To study the dependence of current on the po difference across a resistor and determine its
- 8 To measure the diameter of a given wire wit
- 10 To study the relationship between force of li and normal reaction and to find the co-efficie between a block and a horizontal surface
- 12 To measure the change in temperature during reaction (at least 4) and conclude whether the exothermic or not.
- 14 To identify baking Soda from samples of che samples).
- 16 Litmus solution (Blue & Red) (ii) Aluminium (iii) Hydrochloric acid.

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## Physical Science Equipments

- 1 Mirror – 20 pcs.
- 3 White Paper – 2 Rim
- 5 Drawing Board – 10 pkt.
- 7 Half Metre Scale
- 9 Mirror Holder – 25 pcs.
- 11 Scale (Meter) – 20 pcs.
- 13 Glass slab – 20 pcs.
- 15 Pins – 10 pkt.
- 17 White paper sheet – 2 Rim
- 19 Lens holder – 20 pcs.
- 21 Drawing Board – 20 pcs.
- 23 Drawing Pins – 10 pack
- 25 Half metre Scale – 20 pcs.
- 27 Voltmeter – 10 pcs.
- 29 Battery – 10 pcs.
- 31 Connecting Wire – 2 coil
- 33 Spherical / cylindrical body – 20 pcs.
- 35 Sheet
- 37 Clamp stand – 20 pcs.
- 39 Fine inextensible thread
- 41 Stop clock and metre scale – 20 pcs.
- 43 100g weight – 20 pcs.
- 45 Pan – 20 pcs.
- 47 Weight box – 10 pcs.
- 49 Spirit level – 20 pcs.
- 51 Sodium chloride – 500 ml.
- 53 Wide Range PH Papers – 20 pcs.
- 55 Fine droppers or glass Rod pieces – 20 pcs.
- 57 Chemical flask (250 ml.) – 20 pcs.
- 59 Graduated cylinder – 10 pcs.
- 61 Stirrer – 20 pcs.
- 63 HCL of 1 Molar – 500 ml.
- 65 Solid ammonium chloride – 500 gm.
- 67 Watch Glasses – 20 pcs.
- 69 Spirit lamps – 10 pcs.
- 71 Sodium bicarbonate – 500 ml.
- 73 Calcium oxide (lime) powder – 500 gm.
- 75 Dilute HCL – 250 ml.
- 77 Bleaching Powder – 500 gm.
- 79 Watch Glass – 20 pcs.
- 81 Burner – 10 pcs.
- 83 Delivery tubes – 20 pcs.
- 85 Zinc metal
- 87 Sodium hydroxide solution – 500 ml.
- 89 Glass Rod – 10 pcs.
- 91 Distilled water – 5 ltrs.
- 93 Flat bottom flask – 20 pcs.
- 95 100 ml beaker – 20 pcs.
- 97 Iron stand – 20 pcs.
- 99 Tripod stand – 20 pcs.
- 101 Thin-walled capillary tube 8 to 10 cm long and 1 to 2 mm diameter – 20 pcs.,
- 103 Liquid paraffin or concentrated sulphuric acid – 500 ml.
- 105A small thin walled test tube – 20 pcs.
- 2 Rectangular Block – 20 pcs.
- 4 Drawing Board – 20 pcs.
- 6 Drawing Pins – 20 pcs.
- 8 Concave mirror – 20 pcs.
- 10 White Screen – 20 pcs.
- 12 Drawing board – 20 pcs.
- 14 Geometry box – 10 pcs.
- 16 Convex lens – 20 pc.
- 18 Ground glass screen – 20 pc.
- 20 Half metre scale – 20 pcs.
- 22 Drawing Sheet – 2 Rim
- 24 Prism – 20°, 30° – 20 Pcs.
- 26 Resistance Wire – 20 pcs.
- 28 Ammeter – 10 pcs.
- 30 Rheostat – 5 pcs.
- 32 Vernier callipers – 20 pcs.
- 34 Screw Gauge – 2 pcs.
- 36 Metallic spherical bob with a hook – 20 pcs.
- 38 Split cork – 20 pcs.
- 40 Vernier callipers – 20 pcs.
- 42 Wooden block – 20 pcs.
- 44 Horizontal plane fitted with a frictionless pulley at one end – 20 p
- 46 Physical balance – 50
- 48 Thread
- 50 Washing Soda – 1 kg.
- 52 Distilled water – 500 ml.
- 54 Standard color chart – 20 pcs.
- 56 Glazed titled – 20 pcs.
- 58 Thermometre – 10 pcs.
- 60 Stand with clamp – 20 pcs.
- 62 Zinc Metal – 20 pcs.
- 64 Sodium Hydroxide Solution of 1, Molar – 500 ml.
- 66 Solid sodium Hydroxide – 500 ml.
- 68 Test Tuber – 20 pcs.
- 70 Test tube holder – 20 pcs.
- 72 Wabing Soda – 500 grms.
- 74 Litmus paper of (Blue and Red) – 20 pcs.
- 76 Washing soda – 500 gm.
- 78 Sodium Chloride – 500 ml.
- 80 Boiling tubes – 10 pcs.
- 82 Lime water – 500 ml.
- 84 Litmus Solution (Blue and Red) – 500 ml.
- 86 Sodium carbonate – 500 ml.
- 88 Test tube holder – 10 pcs.
- 90 Rhenoiphthalin Solution – 500 ml.
- 92 Thirth fennel – 20 pcs.
- 94 Aluminium metal
- 96 Thermometer – 20 pcs.
- 98 Clamp – 20 pcs.
- 100Stirrer – 20 pcs.
- 102Spatula – 20 pcs.
- 104100 ml corning glass beaker – 20 pcs.
- 106Thermometer, a capillary tube a tripod stand – 20 pcs.

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107 Wire gauze – 20 pcs.

109 Crude sample of copper sulphate – 500 ml.

111 A china dish – 20 pcs.

113 An evaporating dish and a policeman (glass rod). – 20 pcs.

115 250 ml beakers (two) funnel

117 Burette – 20 pcs.

119 Filtration flask – 20 pcs.

121 Universal Indicator solution,

#### Name Charts (Mathematics Resource Center)

1 Mathematical symbol

3 Algebra

5 Primes less than 1000

#### Name Model (Mathematics Resource Center)

1 Triangle Box

3 Cylinder

5 Base ten Block

7 Algebra Identity Case

9 Traingle Box

11 Fraction Square

13 Tangram Mathematics (Puzzle Box)

15 Power (pegboard)

17 Sets of Scales

19 Graph sheet

21 Sketch pens, Pencils

23 Wooden shapes of square, rectangle, triangles, circle, quadrilaterals, trapezium etc.

#### Biology Test

1 To prepare temporary mount of a (i) leaf and (ii) Peel to show stomata

3 To determine the percentage of water absorbed by raisins

5 To show that carbon dioxide is produced during respirations

7 To prepare a temporary acetocarmine stained smear of anthers of onion floral buds of study stages of meiosis

9 To test the presence of glucose (reducing sugar), sucrose and starch in the given food sample)

108 Conc. Sulphuric acid and the given liquid. – 500 ml.

110 A 400 ml beaker – 20 pcs.

112 A funnel – 20 pcs.

114 Crude sample of benzoic acid – 500 ml.

116 A policeman, a trough

118 Pipette (20.0 ml.), - 20 pcs.

120 Beakers, Funnel – 20 pcs.

1220.1 M HCL and 0.1 M NaOH - 500 ml.

2 Graph 1 cm

4 Square n Square roots

6 Primes and Composites

2 Cubes

4 Decimal Plate

6 Pythagoras Theorem set (Triangular Square)

8 Alarm watch

10 Sit & Set

12 Jar Set (50-1000 ml)

14 Number and plate Box

16 Roman Number Kit

18 Geometrical tool box

20 Scissors-02

22 Stencils of geometrical shapes

2 To study binary fission for budding with the help of prepared slide

4 To show that light is necessary for photosynthesis

6 To prepare temporary acetocarmine stained mount of onion root stages of mitosis

8 To study cyclosis in leaf cells of Hydrilla/Staminal hair of Tradesc

10 To test the presence of proteins in the given food sample.

#### Biology Test Equipments

1 Slides – 20 pkt.

3 Dropper – 20 pcs.

5 Dissecting microscope – 2 pcs.

7 Compound microscope – 2 pcs.

9 Plants – 20 pcs.

11 Prepared slides of binary fission in Amoeba and yeast – 20 pcs.

13 Directing microscope – 2 pcs.

15 Physical Balance – 2 pcs.

17 Beaker (250 ml) – 20 pcs.

19 Filter paper – 20 pcs.

21 Beakers – 20 pcs.

23 Forceps – 20 pcs.

25 Black paper pieces – 20 pcs.

27 Iodine Solution – 500 ml.

29 Cork with one hole – 20 pcs.

31 Lime water – 500 ml.

33 Tube – 20 pcs.

35 Onion bulbs – 20 pcs.

37 Corked vial / tube – 10 pcs.

39 Scissors – 20 pcs.

41 Methyl alcohol acetic acid – 500 ml.

2 Glycerin – 500 ml.

4 Coverslips – 20 pcs.

6 Watch Glass – 20 pcs.

8 Forceps – 20 pcs.

10 Compound microscope – 2 pcs.

12 Budding in budding of earts and Hydra – 2 pcs.

14 Weight box - 20 pcs.

16 Raisins (5-10 gms.) – 20 pcs.

18 Petri dish – 20 pcs.

20 Potted Plant – 20 pcs.

22 Petridish – 20 pcs.

24 Clips or gem pins – 20 pkt.

26 Alcohol or spirit – 500 ml.

28 Conical flask – 20 pcs.

30 Delivery tube bent at two Right angles – 20 pcs.

32 Stand with clamps – 10 pcs.

34 KOH Solution – 500 ml.

36 Conical flasks / glass bottles – 20 pcs.

38 Scissors – 20 pcs

40 Needles – 20 pcs.

42 Hydrochloric acid – 500 ml.

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- 43 Acetocarmine
- 45 Spirit lamp - 20 pcs.
- 47 Slides - 10 pcs.
- 49 Blotting paper etc. - 10 pкт.
- 51 Methyl alcohol - 500 ml.
- 53 Slides - 20 pкт.
- 55 Spirit lamp - 20 pcs.
- 57 Young shoot of Hydrilla / young flowers of Tradescantia
- 59 Benedict's Reagent
- 61 Conc. HCL - 500 ml.
- 63 NaOH solution - 500 ml.
- 65 Solution of the food sample - 500 ml.
- 67 Iodine - 500 ml.
- 69 Match-Box - 20 pкт.
- 71 Egg, Albumin or any protein solution prepared from gram
- 73 NaOH - 500 ml.
- 75 Millions, reagent - 500 ml.
- 77 Ammonia solution - 500 ml.

#### Biological Science Model

- 1 Skull System
- 3 Liver
- 5 Kidney
- 7 Ear

- 9 Nervous System etc.

#### Name of Equipments (Language Lab)

- 1 LCD Projector
- 3 Public Address System
- 5 Television
- 7 DVD Player
- 9 Projection Screen
- 11 Five set Multimedia Ear Phone
- 13 Laptop with Internet Facility

#### Indoor Games

- 1 Ludo
  - 3 Chess etc.
- Outdoor Games**
- 1 Football - 2
  - 3 Cricket Ball - 2 box
  - 5 Volley Ball - 02
  - 7 Badminton Racket - 04
  - 9 Whistle - 2
  - 11 Discuss - 2
  - 13 Wicket - 06 pc.
  - 15 Batting Gloves - 02 set
  - 17 Gola - 01

- 44 Distilled water - 5 Ltrs.
- 46 Microscope - 2 pcs.
- 48 Coverslips - 20 pcs.
- 50 Onion floral buds / tradescantia
- 52 Acetic acid - 500 ml.
- 54 Coverships - 20 pcs.
- 56 Corked vial etc. - 20 pcs.
- 58 Microscope - 20 pкт
- 60 Fehling's solution 'A' Fehling's solution 'B' - 500 ml.
- 62 5% Cobalt Nitrate - 500 ml.
- 64 HCL (Dil) - 500 ml.
- 66 Dropper - 10 pcs.
- 68 Spirit lamp or burner - 20 pcs.
- 70 Test tube holder etc. - 20 pcs.
- 72 Soyabean etc. - 500g.
- 74 CuSO<sub>4</sub> - 500 ml.
- 76 Conc. HNO<sub>3</sub> - 500 ml.
- 78 Test tubes - 20 pcs.,

- 2 Brain
- 4 Heart
- 6 Eye
- 8 Nose

- 2 Lingua Phone - 02
- 4 Computer Facility (Call)
- 6 DTH
- 8 100 Educational CD's
- 10 One Set Speaker
- 12 Video Camera
- 14 Slide Projector

- 2 Karamboard

- 2 Basket Ball - 2
- 4 Net - 2 set
- 6 Shuttle Cock - 02 box
- 8 Ring Wooden - 3
- 10 Rope for tug of war - 01
- 12 Cricket Bat - 02
- 14 Javellin - 01
- 16 Wicket keeping gloves - 01 set
- 18 Stop Watch.