

Kit manual

Kit manuals may be purchased from sales counter of Publication Division, NCERT, New Delhi. The price of all the kit manuals are ranging Rs.50 to 200/-

1 No.

2.

Kit box with carton

Main Body of 26 SWG and partitions of tin sheet. Doors will be fitted 15 mm above the ground level with main body. Right hand door and left hand door should have two racks. The rack partition should have guides The doors should have suitable piano hinges duly spot welded/riveted etc. with main body. Provision for locking system & two folding type handle 6 mm dia for carrying box. Provision for supporting rest for hanging doors to be made . All over box size 470 x 450 x 280mm box weight should be 5.75 kg

± 100g

01 No.

3

Test tube

Borosilicate boiling glass tube dia 15x125mm. length with rim.

12 Nos.

4

Boiling test tube

Borosilicate Boiling test tube 6"x1"

2 Nos.

5

Beaker Plastic

capacity 100 mL, height 60 mm, diameter 50mm. with rim

2 Nos.

6

Beaker Plastic

capacity 50 mL, height 56 mm, diameter 42mm with rim

2 Nos.

7

Glass rod

Length 150mm, dia 07mm

2 Nos.

8

Glass Slides plain

Standard glass item 75mmx 25mm x 1mm thick (one box of 50 slides)

2 boxes

9

Watch glass

Soda glass, 2" diameter

2 Nos.

10
Cover slip square
Thickness 0.2mm-0.3mm approx. square glass pieces

2 pkts.

11
Petridish
Plastic dish outer dia.110/115mm x 28/30mm depth.

2 Nos.

12
Funnel
Plastic, transparent top dia. 90mm x overall length 140 mm

2 Nos.

13
Measuring cylinder (plastic)
100 ml

1No.

14
Measuring cylinder (plastic)
50 mL.

1No.

15

Capillary tubes

Soda glass. Dia. 1.5mm x 100mm

1 pkt.

16

Pipette

Borosilicate, 10 mL Graduated

2 Nos.

17

Conical flask

Capacity 100 mL borosilicate glass

2 Nos.

18

Cavity slide

75mmx25mm with single cavity, 12 pc

1 pkt.

19

Measuring cylinder

Plastic, transparent with built in base, 10mL graduation (min 1mL)

1 No.

20

Pipette (Plastic)

Low Density Poly Ethylene (LDPE), capacity 3 mL

6 Nos.

21

Plastic beaker 250 mL

Plastic beaker 250 ml Height 95mm X dia. 70mm approx

2 Nos.

22

Test tube stand

Length 200 mm height 80mm to hold the test tubes upto 15 mm dia. And one for 25 mm dia. Boiling tube. (plastic for 6 Test Tube)

2 Nos.

23

Dropping bottle

Plastic dropping bottle 60 ml

12 Nos.

24
Glass Dropper
Length 100mm, capillary length 50mm, diameter 06mm

10 Nos.

25
Wash bottle
LDPE, capacity 125mL. good quality.

1 No.

26
Muslin cloth
15cm x 15 cm
1 No.

27
Lens cleaning fluid
50 ml

1 bottle

28
Lens cleaning paper
1 book

1 No.

29

Dissecting needles

Standard, length 120mm, with plastic handle

4 Nos.

30

Sharp edged knife

100mmx1.5mm, hardened steel, with wooden handle.

1 No.

31

Razor Blade

Shaving blade. 1 packet

1 No.

32

Blade with holder

1 No.

33

Thread

1 roll 1mm thick

5 mts.

34

Brush

Painting brush Soft hairs.

3 Nos.

35

Surgical Gloves

4 pairs.

36

Pins (Drawing board pins)

1 pkt.

37

Rubber bands

Plastic Rubber bands 30 pc.

1 pkt.

38

Surgical Scissors

125 mm, one prong blunt and other pointed, standard

4 Nos.

39

Cotton wool (absorbent)

Weight: 50gm one roll

2 roll

40

Cavity blocks tiles

95mmx70mmx18mm, with 6/12 cavities

2 Nos.

41

Measuring tape (Retractable)

Tailor measuring tape

1 No.

42

Glue

50 g

1 bottle

43

Split rubber cork (No. 7)

Rubber cork of axial length 28 mm, smaller face dia 20mm. No.7 bigger face dia 25mm in the two

1 No.

44

Cork with a hole

Standard, size no.7 5mm hole

1 No.

45

Black paper

Thick A4 size

1 sheet

46

Spatula

Stainless steel. 100mm approx. length

1 No.

47

Yellow plastic beads /cubes

1 c.c. cube, 72 in no. packed in plastic zipper bags

1 Nos.

48

Green plastic beads/cubes

1 c.c. cube, 72 in no. packed in plastic zipper bags

1 Nos.

49

Red plastic beads/cubes

1 c.c. cube, 72 in no. packed in plastic zipper bags.

1 Nos.

50

White plastic beads/cubes

1 c.c. cube, 72 in no. packed in plastic zipper bags

1 Nos.

51

Zipper plastic bags

Polythene bags with Zip (5"x4")

10 Nos.

52

Paper clips

U type,

1 pkt.

53

Tags

, 20 in no.

1 pkt.

54

Rope

4 mts. In 4 mm

1 roll

55

Nails

Length 38 mm, 15 SWG

4 Nos.

56

Claw Hammer

Forged, approximate weight 225 gm with wooden handle

1 No.

57

Cotton towel (small)

40 cm x 60 cm

1 No.

58

Herbarium sheets

42 x 29 cm standard

2 Nos.

59

Chromatography paper

Whatman paper No.1, 6"x6" sheets

6 sheets

60

Graph paper

A4, 10 sheets

10 sheets

61

Scalpel

S.S. Length 150mm aprox.

01

62

Blotting paper/sheet

30 x 50 cm

5 No.

63

Filter paper

Ordinary. Circular of 11cm diameter . 100 circle

1 pkt.

64

pH indicator paper

pH 1-11, paper box containing, 10 booklets. (narrow range)

5 box

65

pH indicator paper

pH 1-14, paper box containing, 10 booklets (broad range)

5 box

66

Petroleum jelly

50 g. packed in container

1 No.

67

Dissecting scissors

125 mm, both pointed, standard.

1 No.

68

Forceps

Stainless steel, length 100mm.

2 No.

69

Test tube holder

Wooden handle, Length 200 mm, to hold the test tubes upto 25 mm dia., plated.

2 No.

70

Motor and pestle

Glassware motor 75 mm dia. Height 55 mm and pastel dia.25mm length 175mm

1 set

71

Thermometer

Glass, alcohol filled, -10° C to 110° C, graduation 1° C with card board/ plastic cover and cotton at both ends.

1 No.

72

Laboratory Stand

1. Boss head
2. Clamp
3. G clamp

Specifications:

MS rod dia. 10mm x 375 mm long, MS base, CI Boss head, G clamp and aluminium clamp.

1 No.

73

Spirit Lamp

Steel body along with brass wick holder dia 65mm, height 50mm

01 Nos.

74

Tripod stand

Height 100mm cast iron top 7x7x7cm triangle, legs dia 4mm iron body.

1 No.

75

Wire Gauze

100mm x 100 mm with bidding

1 No.

76

Dispensing bottle

Low Density Poly Ethylene (LDPE), Capacity 15 mL approx., with screw type cap and nozzle.

12 Nos.

77

Square Container box

50g to 100g capacity

12 Nos.

78

Plastic boxes

Packing for glassware and other loose items assorted size

4 Nos.

79

Magnifying Glass

Optical glass, focal length 120 mm, with plastic handle/steel handle

1 No.

80

Compound Microscope (optional)

ISI Based microscope: Metal Body, overall height approx. 320 mm, base 125 mm x 200 mm. Achromatic good quality lenses.

Two Objectives: 10x & 45x. Two Eyepieces: 10x & 15x having coarse fine motion & fixed condenser.

1 No.

81

Slide Box

100x80x32mm height joint flap type for 50 slide.

Visual Cards Size 21 cm x 30 cm plastic coated card

82

Amoeba

Standard.

01

83

Plasmodium

Standard.

01

84

Hydra

Standard.

01

85

Liverfluke

Standard.

01

86

Ascaris

Standard.

01

87

Earthworm

Standard.

01

88

Leech

Standard.

01

89

Cockroach

Standard.

01

90

Honey Bee

Standard.

01

91

Silk moth

Standard.

01

92

Palaemon

Standard.

01

93

Pila

Standard.

01

94

Starfish

Standard.

01

95

Scoliodon

Standard.

01

96

Labeo rohita

Standard.

01

97

Rana tigrina

Standard.

01

98

Calotes

Standard.

01

99

Pigeon

Standard.

01

100

Rabbit

Standard.

01

101

Bacteria

Standard.

01

102

Oscillatoria

Standard.

01

103

Spirogyra

Standard.

01

104

Agaricus

Standard.

01

105

Lichen

Standard.

01

106

Marchantia

Standard.

01

107

Funaria

Standard.

01

108

Dryopteris

Standard.

01

109

Pinus

Standard.

01

110

Male and Female Reproductive Organ - Pinus

Standard.

01

111

Stem modification: Storage (Tuber, bulb, rhizome)

Standard.

01

112

Stem modification: Vegetative propagation (Sucker, Runner, Stolon, Offset)

Standard.

01

113

Stem modification: Support and Defense

Standard.

01

114

Leaf modification: Storage and protection

Standard.

01

115

Leaf modification: Support and insect trapping

Standard.

01

116

Root modification for storage: Radish, Carrot, Beet, Turnip, Sweet potato

Standard.

01

117

Root modification for Nodulation and Breathing

Standard.

01

118

Root modification for Support

Standard.

01

119

Stages of Mitosis

Standard.

01

120

Stages of Meiosis

Standard.

01

121

Spermatogenesis

Standard.

01

122

Oogenesis

Standard.

01

123

T.S. Blastocyst

Standard.

01

124

Photomicrographs of Cardiac, Skeletal and Smooth muscle

Standard.

01

125

Blood Cells

Standard.

01

126

Adaptations: Xeric (animals) (Camel, Rattle snake, Chameleon)

Standard.

01

127

Adaptations: Aquatic (animals) (Duck, Fish,

Standard.

01

Penguin, Dolphin)

128

Adaptations: Xerophytes (Plants) (Acacia, Aloe, Opuntia, Cycas)

Standard.

01

129

Photomicrographs of Cardiac Skeletal and Smooth muscle

Standard.

01

130

Homologous organs (Animals & Plant)

Standard.

01

131

Analogous organs (Animals & Plant)

Standard.

01

132

Human Skeleton (Synthetic)

Over all length of skeleton 425mm base and sporting strip also provide

Standard.

1 No.

133

Lichen

01

134

Dryopteris

01

135

Salvinia

01

136

Pistia

01

137

Hydrilla

01

138

Marsilea

01

139

Marchantia

01

140

Funaria (Moss)

01

141

Utricularia

01

142

Legume (Pea) root nodules

01

143

Oxalis plant whole with cleistogamy

01

144

Pea / lentil plant with tendrils

01

145

T.S. of Nerium leaf

All slides packed in plastic box.

01

146

T.S. of lotus petiole / stem

All slides packed in plastic box.

01

147

V. S. of shoot apex & root apex of a dicot.

All slides packed in plastic box.

01

148

Macerated Bougainvillea Xylem & Phloem

All slides packed in plastic box.

01

149

Macerated Tridax stem Xylem & Phloem

All slides packed in plastic box.

01

150

Bacteria Spirillum

All slides packed in plastic box.

01

151

Oscillatoria

All slides packed in plastic box.

01

152

Spirogyra

All slides packed in plastic box.

01

153

Rhizopus

All slides packed in plastic box.

01

154

Yeast budding

All slides packed in plastic box.

01

155

Amoeba

All slides packed in plastic box.

01

156

Entamoeba

All slides packed in plastic box.

01

157

Plasmodium

All slides packed in plastic box.

01

158

T. S. Stem of Sunflower

All slides packed in plastic box.

01

159

T. S.Stem of Maize

All slides packed in plastic box.

01

160

T. S.Root of Sunflower

All slides packed in plastic box.

01

161

T. S. Root of Maize

All slides packed in plastic box.

01

162

T. S. of stem showing Collenchyma

All slides packed in plastic box.

01

163

T. S. of stem showing Sclerenchyma

All slides packed in plastic box.

01

164

T. S. of stem showing Parenchyma

All slides packed in plastic box.

01

165

V. S. of ovule showing embryo sac

All slides packed in plastic box.

01

Stages of meiosis in pollen mother cells (Onion): Minimum five slides showing following stages

166

Prophase - I Leptotene-Zygotene

All slides packed in plastic box.

01

167

Prophase - I Pachytene

All slides packed in plastic box.

01

168

Prophase - I Diplotene-Diakinesis

All slides packed in plastic box.

01

169

Metaphase - I

All slides packed in plastic box.

01

170

Anaphase - I

All slides packed in plastic box.

01

171

Telophase - I

All slides packed in plastic box.

01

172

Metaphase - II

All slides packed in plastic box.

01

173

Anaphase - II

All slides packed in plastic box.

01

174

Telophase - II

All slides packed in plastic box.

01

Stages of mitosis (Onion root tip): Minimum two slides from the following stages

175

Prophase

All slides packed in plastic box.

01

176

Metaphase

All slides packed in plastic box.

01

177

Anaphase

All slides packed in plastic box.

01

178

Telophase

All slides packed in plastic box.

01

Chemicals

179

Buffer Capsule Ph 9

1 bottle

180

Buffer Capsule Ph 7

1 bottle

181

Buffer Capsule Ph 4

1 bottle