INDEX

Aleurone grains 7

" " layer of barley 18
" " " cotton 49
" " " cruciferous seeds 63, 65
" " " fenugreek 38
" " " hemp 62
" " " maize 28
" " " millet 31
" " " niger 59
" " " oats 21
" " " rice 24
" " " soya bean 38
" " " wheat 13

Arachis hypogea 43
Avena sativa 19-21

Barley 14-19
" " meal 34
Black bindweed 3
Bombus malabaricum 52
Brassica 62, 63
" " alba 63
" " arvensis 67
" " Besseriana 66
" " nigra 65
Brewer's grains 34
Brown wrinkled bodies 7, 42, 47

Cannabis sativa 59

Carob bean 1, 2, 7, 41-43, 46, 47
Caustic 5, 8

Ceratonia siliqua 42
Charlock 67
Chloral hydrate 67
Chlor-zinc iodine 6, 28
Clearing reagents 5
Cocos nucifera 68-69
Colour tests 8, 42, 48, 67

Column cells. See hypodermal layer
Corn-cockle 3
Cotton 1, 2, 48-52
Cross cells 10

" " of barley 16-18
" " linseed 56
" " millet 31
" " oats 21
" " rice 24
" " ryko 26
" " wheat 12

Cruciferous seeds 62-68
Crystal-containing cells 39, 62
Cystoliths 60, 62

Dagger cells 7, 22
Dumb-bell-shaped cells. See hypodermal layer

Elaeis Guineensis 67-69
Embedding 4
Endocarp 9

" " of palm nut 68
Endosperm of carob bean 43
" " coco-nut 68-69
" " cotton 48, 49
" " hemp 62
" " linseed 56
" " palm nut 68, 69

(See also aleurone layer)

Epicarp 9

" " of barley 16
" " maize 27
" " millet 30
" " oats 19-20
" " rice 23
" " ryko 24
" " wheat 10
Index

*Eriodendron anfructuosum* 52

Fenugreek 1, 2, 7, 36–38, 46, 47

Flavours 7

Gentian violet 6

Glycerine 5

Glycerine jelly 5

*Gossypium herbaceum* 48

Ground nut 1, 2, 41, 43–47

*Guizotia oleifera* 57–59

Haematoxylin 6

Hemp 1, 2, 59–62

*Hordeum sativum* 14–19

Horse bean 36–39, 46, 47

Hour-glass cells. *See* hypodermal cells

Hypodermal cells of brassicas 62–68

Hypodermal cells of niger 57, 58

" " " pulses 36–41, 43

Indian colza 67

Iodine 7

Kapok 52–55

Linseed 1, 2, 55–57

*Linum usitatissimum* 55

Locust bean. *See* carob bean

Maceration 6

*Malva sativa* 59

Maize 26–28

" cobs 35

" germ meal 2, 35

" meal 1, 2, 38

Malt culms 2, 35

Mesocarp 9

" of barley 16

" maize 27

" oats 19

" rice 24

" rye 24–25

" wheat 10

Millet 28–34

Monkey nuts. *See* ground nuts

Mountains 6

Mucilage 3, 8, 38, 55, 63, 64

Mustard, black 65

Sarepta 66

" white 63

Niger 1, 2, 57–59

Oats 19–21

*Oryza sativa* 21–24

" of barley 14–16

" maize 26

" millet 38

" rice 7, 21

" Palisade cells of cotton 49, 50

" " crucifers 63–65

" " kapok 54

" " pulses 35–39

" Palm nuts 1, 2, 67–69

*Panicum miliaceum* 28–34

Parenchyma of barley 14

" carob 43

" cotton 49

" " crucifers 63–66

" " hemp 61

" " linseed 55

" " maize 28

" " niger 58

" " oats 19

" " pulses 38

" " rice 22

" Pea 2, 36–40, 46, 47

" Pea-nut. *See* ground nut

Pericarp 9

" of hemp 61

" maize 27

" wheat [=bran coats] 10

Perisperm of barley 18

" cotton 48, 49

" hemp 62

" kapok 55

" maize 28

" millet 31

" oats 21

" rice 24

" rye 26

" wheat 13

*Phaseolus vulgaris* 36, 47

Pigment layer of linseed 56

" niger 58

Pollards 34
Index

Rape 1, 2, 67
Rice 21–24
  " bran 35
  " meal 1, 2, 35
  " middlings 35
  " paleae 7
Rye 24–26
Safranin 6
Salt 7
Sand 3
Sarepta mustard 66
Schulze's macerating fluid 5
Secale cereale 24
Sectioning 3
Silky cotton 52
Sinapis arvensis 67
Soya bean 1, 2, 36–39, 46, 47
Soycot 1
Spermoderm 9, 10
  " of barley 18
  " hemp 61–62
  " maize 28
  " millet 31
  " niger 59
  " oats 21
  " rice 24
  " rye 26
  " wheat 12
Staining 6
Starch grains 7
  " of barley 19, 70
  " maize 28, 70

Starch grains of millet 31, 71
  " oats 21, 70
  " pulses 45, 71
  " rice 24, 70
  " rye 13
  " wheat 13, 70
Stone cells 68
Sub-epidermal layer. See hypodermal layer
Sunflower 1
Surface preparations 4

Trocule 2, 7
Triticum sativum 10–14
Tube cells 10
  " of barley 18
  " maize 28
  " millet 31
  " oats 21
  " rice 24
  " wheat 12
Turmeric 7
Twin-cells 14, 15

Water as a mountant 5–6
Wheat 10–14
  " bran 1, 2, 34
  " germ 34
  " meal 34
  " middlings 34
Zea mays 26