**Page number** : 1

I . 1 Depend 2. Oxygen , food 3. Sunlight, carbon-dioxide.

II Plants, oxygen gas , Animals, Carbon-dioxide gas

**Page number** : 2

1 (i) Cactus plant (ii) Mould (iii) Venus –fly trap

2 (i) Terrestrial plants (ii) Aquatic plants (iii) Insectivorous plants (iv) Evergreen plants (v) deciduous trees

**Page number** : 3

I Match (i) – (c) ,(ii) –(e) , (iii) – (a) , (iv) – (f) , (v) - (b) , (vi) – (d)

II Do it yourself

**Page number** : 4

I 1 cactus, brittle bush 2 mango, banyan tree 3 duckweed , mosquito fern 4 pine,cedar

5 pitcher, venus –fly trap 6 sacred lotus ,water lettuce

II DESERT,HILLS,MARSHES,PORES ,FORESTS,GRASSLANDS WATER

**Page number** : 5

1 a hydrophytic b spongy cells c leaves d aquatic

2 a teak b mango c lotus

3 Do it yourself

4 a It helps to shed the snow easily

b To save from the current in the water

**Page number** : 6 leaves, adventitious, germination, shoot, veins, tap, leaf

**Page number** : 7

I a apex b starch c chlorophyll d photosynthesis e stomata II Do it yourself

**Page number** : 8

1 a leaves b light energy c starch d veins

2 a sapropnytes b stomata c chlorophyll

3 a The process in which green plants turn carbon di- oxide and water into food using energy from sunlight

b A large strengthened vein along the midline of a leaf

c These are the plants that derive most of their nutrients from trapping and consuming animals or insects.

**Page number** : 9

1 a carbon dioxide b leaf blade c stomata

2 ,3 Do it yourself

**Page number** : 10

1 a carnivores b scavengers c large mammal

2 a aquatic animals b amphibians c mammals

3 a opossum b rabbit c ticks

**Page number** : 11

1 herbivore 2 true 3 (a) 4 (c) 5 (c) 6 (a) 7 animals that eats algae 8 false 9 African elephant 10 feathering beetle

**Page number** : 12

1 (b) 2. 21 inches 3 (b) 5 herds 6 they huddles together 7 aquatic flightless bird 8 for gripping

**Page number** : 13 Do it yourself

**Page number** : 14

1 true 2 (c) 3 they fed on dead animals 4 (c) 5 blue whale 6 polar bear 8 (a) 9 least weasel 10 true

**Page number** : 15

1 a maggots b warm c oothecae d chick

2 a frogs b tadpole c reproduction

3 a length of time to live b animals developed after hatching c members of mammals class marsupialia

**Page number** : 16

1 a It keeps fluid in bloodstream b it helps keep out bacteria and dust

2 eggs, caterpillar, chrysalis

**Page number** : 17

1 because they live in water 2 development of an embryo with in the egg

3 because they have pouches

**Page number** : 18

1 (c) 2 (d) 3 (b) 4 (a) 5 (d) 6 (c)

**Page number** : 19

Egg, tadpole, tadpole with 2 legs, tadpole with 3 legs , adult frog

**Page number** : 20

Seven

respiration,nutrition, reproduction, movement, excretion, sensitivity, growth

move

food,leaves

carnivores

waste

**Page number** : 21

1 a raw ,cook b vitamins c balanced diet d body building

2 a fruits, vegetables

b butter, ghee

c milk, apples

d eggs, fish

3 a roughing b groundnut c cheese

**Page number** : 22

1. a substances that are needed by our body for health and growth

b process by which we can prevent the food

c fibre present in the food

d substances like sugar and starch which gives energy

2. Required-1,3,5,7,8,9,10

**Page number** : 23

Fit, balanced,smoking, diet, energy, four, proteins, carbohydrates, bread, repair, fish cheese,minerals,vegetables

**Page number** : 24,25

Do it yourself

**Page number** : 26

1 milk, cereals, fruit juice

2 a carbohydrates, vitamins, minerals

b starch, sugar energy

c proteins

d calcium

**Page number** : 27

1 a (i) b (ii) c (i) d (ii) 2 carrot, meet, fruits, lemon

**Page number** : 28

1 a supplies all the nutrients to the body

b refrigeration, canning, drying

c vitamin D

d Do it yourself

**Page number** : 29

1 a false b true c false

2 ,3 Do it yourself

**Page number** : 30

1 (ii) 2 (c) 4 (c) 5 (d)

**Page number** : 31

1 a teeth b temporary teeth c esophagus d small intestine e (ii)

2 a enamel b tartar c pulp

3 a permanent damaged areas in teeth develop into tiny holes

b hard white outer covering of the teeth

c unicellular organisms that are invisible to the naked eyes.

**Page number** : 32

1 incisor, canine, premolar, molar

2 a true b true c true d false e false

**Page number** : 33

1 1 (f) 2 (d) 3 (b) 4 (a) 5 (g) 6 (e) 7 (c)

2 Do it yourself

**Page number** : 34 Do it yourself

**Page number** : 35 1 ,II Do it yourself

**Page number** : 36

1 (d) 2 (c) 3 (c) 4 (a) 5 (d)

**Page number** : 37

1 food pipe, stomach, small intestine, large intestine anus

**Page number** : 38

1 (b) 2 (a) 3 (b) 4 (d) 5 (a) 6 (a)

**Page number** : 39,40 Do it yourself

**Page number** : 41

1 (b) 2 (c) 3 (a) 4 (b) 5 (b)

**Page number** : 42,43 Do it yourself

**Page number** : 44

1 a smallest, oldest and simplest known unicellular organisms

b considered between living and nonliving organisms

c they share a common feature with plants having cell wall

d unicellular organisms that have animals like characterstics

**Page number** : 45

1-viruses, beings

2-cell

3-water

4-

5-streptococci

6-reproduce

7-cough, fever

8-stomach, healthy

**Page number** : 46

1 a seat belt b antiseptic lotion c calamine d zebra crossing

2 a washed b dealing with electric appliance c open ground d aid given to the injured person before the Dr arrival

3 a soframycin b synthetic clothes c zebra crossing d antiseptic lotion,cotton pads, a pair of scissors, baind-aids

**Page number** : 47

1 children crossing 2 give way 3 no right turn 4 slow 5 no u turn 6 one way 7 stop

**Page number** : 48

a cotton b strangers c cool

a water is a good conductor of electricity

b install non slip surfaces

c for reducing casualties

**Page number** : 49,50 Do it yourself

**Page number** : 51

1 a mass b work c electrical, light d nuclear

2 Nail simple machine , knife simple machine fork simple machine

**Page number** : 52

1 screw, pulley, axe, inclined plane

2 a It is a pull or push upon an object b friction is a force that oposes the motion

c simple machine is a device that changes the direction of a force

**Page number** : 53 Do it yourself

**Page number** : 54

1(a) 2(b) 3(c) 4(b) 5 (a)

**Page number** : 55

1 a push b push c push d pull e push

2 a friction b unbalanced force

**Page number** : 56

1 a pull or push

2 opposing force

3 point on which something turn

4 flat supporting surface tilted at an angle

5 simple machine

6 heavy object

7 equipment for doing jov

8 a bar connecting a pair of wheels

9 workdone per unit time

10 force to move

11 simple machine

12 force to move away

13 pointed piece of metal for fixing

14 Long piece of thin metal bent round

15 piece of equipment

16 force and distance

17 piece of wood

18 circular frame capable of turning an axle

19 to do something which needs effort

**Page number** : 57

1 less,less,high,less

2 (3)

3 (a)

**Page number** : 58

Compound, simple ,compound ,simple , simple, simple, simple , compound, compound

**Page number** : 59 Do it yourself

**Page number** : 60

I 1 lever 2 screw 3 inclined 4 pulley 5 wedge 6 axel 7 force 8 friction 9 work 10 power 11 spring 12 machine 13 pull 14 push 15 tool

II friction

**Page number** : 61

Summer clothes- swim suit , Tshirt sandless

Sking holiday- scarf, ski pants, ski jackets , socks, wooly hat

Rainy day- raincoat, umbrella

Sunny day- jumper, flip-flap, sunglasses ,shorts, trouser, welliess, skirt, sundress, sun hat

**Page number** : 62

I 1 dark- coloured , heat 2 lycra 3 silverfish , woolen 5 cocoon

II Do it yourself

**Page number** : 63 Do it yourself

**Page number** : 64

1 (c)

2 they naturally resist water logging

**Page number** : 65

1 A –false , B – true C – true D – false E- false

2 A- 4, B- 2 , C -3 ,D -1 , E-5

**Page number** : 66

1 –I, 2 –F, 3-J, 4-G , 5-C, 6-B, 7-D ,8-A, 9-E, 10-H

**Page number** : 67

1 (b)

2 1-B , 2- C, 3 – A, 4-D

3 (b)

4 (c)

**Page number** : 68 Do it yourself

**Page number** : 69

2 (b) 3 (b)

**Page number** : 70

1 (c) 2 a(e) b(b) c(d) d(c) e(a) 3 (a)

**Page number** : 71

1 a water b decantation c breeze d frost

2 Do it yourself

3 a it is effective on bacteria and viruses

b water retains heat longer than land and also takes longer to heat and cool

**Page number** : 72 Do it yourself

**Page number** : 73

1 a 2 a 3 d 4 b 5 c

**Page number** : 74,75 Do it yourself

**Page number** : 76

1 d 2 c 3 d 4 d

**Page number** : 77

1 147.33 million km 2 jupiter 3 one 4 jupiter, Saturn, Neptune, Uranus

5 uranus 6 it has not cleare its region 7 Neil Armstrong, Edwin

8 1972 9 same as 4 10 pluto, eris, ceres, makemake, haumea

**Page number** : 78 Do it yourself

**Page number** : 79

1 venus , Neptune , earth, Saturn , mars , Pluto, Jupiter , mercury

2 (b) 3,4 Do it yourself

**Page number** : 80

Across Down

1 telescope 2 system

6 earth 3 jupiter

8 moons 4 mercury

9 surface 5 rings

10 star 7 venus

**Page number** : 81 Do it yourself

**Page number** : 82

1 mars 2 jupoiter 3 earth 4 pluto 5 venus

**Page number** : 83

1 venus 2 neptune 3 venus 4 uranus

**Page number** : 84 Do it yourself

**Page number** : 85

1 innermost 2 no 3 no 4 terrestrial 5 NASA 6 one , mariner 7 800 degree f 8 290 degree f/ 180 degree celcius 9 58 days,15 hr,30 min 10 88 days 11 counter clock wise

12 no

**Page number** : 86 Do it yourself

**Page number** : 87

1 (b) 2 (b) 3(d) 4 (a) 5(c) 6 (b)

**Page number** : 88

1 (d) 2( c) 3 (a) 4(a) 5 (b) 6 (d)

**Page number** : 89

1 A 2 C 3 A 4 B 5 B 6 C 7 A

**Page number** : 90

1 mantle 2 crust 3 crust 4 outer core

**Page number** : 91,92,93, 94 Do it yourself

**Page number** : 95

1 (b)

2 salt water- boiling water with floating dirt – filtering water with mud – sedimentation

Water with clay sediments – decantation

**Page number** : 96

2 gas 3 solid 4 solid 5 liquid 6 solid 7 liquid 8 gas 9 liquid

**Page number** : 97

1 true 2 false 3 false 4 true 5 false

**Page number** : 98

1 anything that has mass and space

2 the minor component in a solution

3 a liquid that can dissolve another substance

4 mixture of solute and solvent

5 the temperature at which water freezes

6 to change from a solid to a liquid by heat

7 when water changes from a liquid to a gaur vapours

8 the process of changing a gas to a liquid

**Page number** : 99

1. 1 false 2 true 3 false 4 false 5 false
2. Do it yourself

**Page number** : 100

1 hand picking 2 by sieve 3 magnet 4 decantation 5 distillation