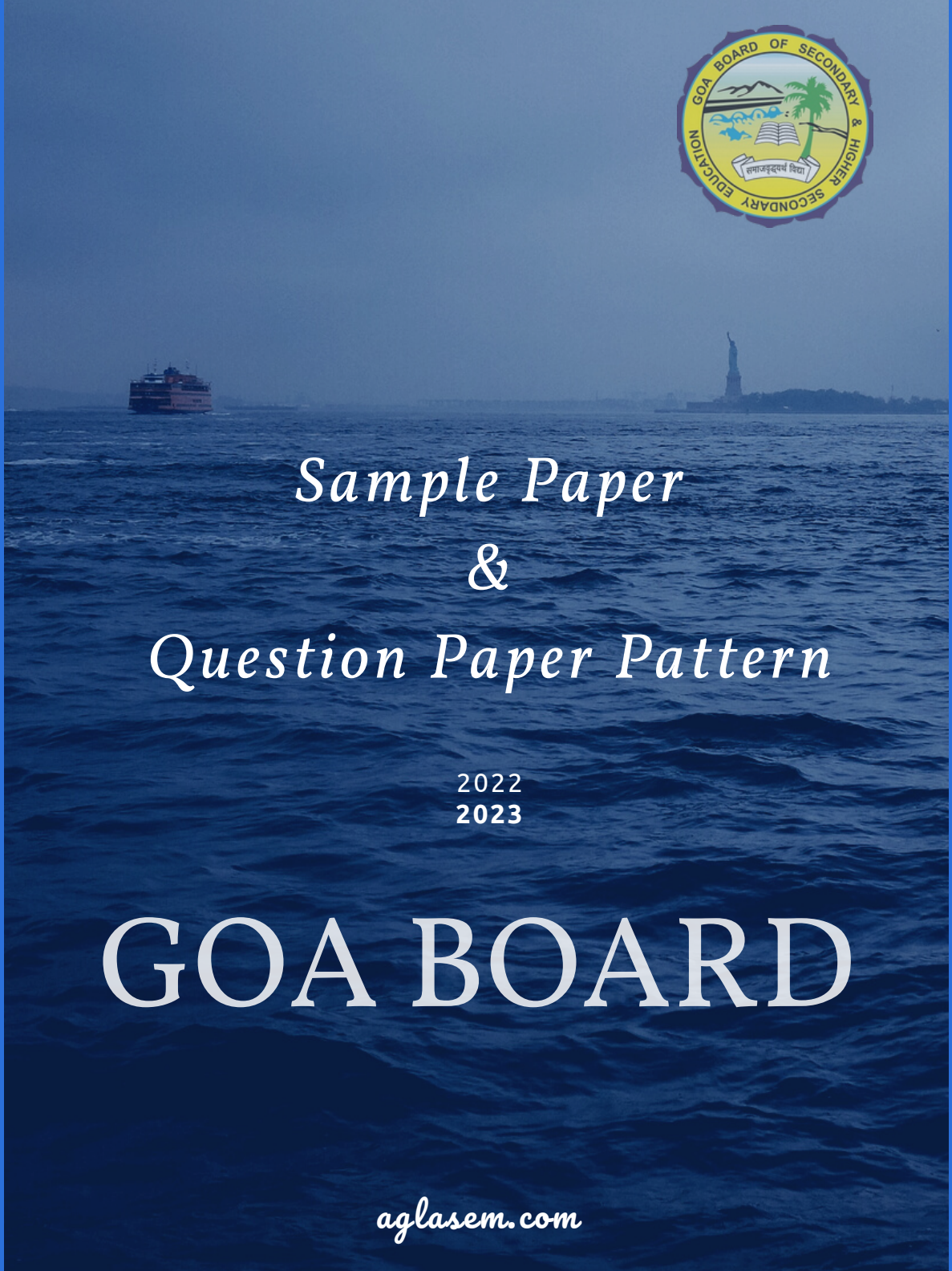


# *Sample Paper*
# *&*
# *Question Paper Pattern*

2022
**2023**

# GOA BOARD

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Model Question Paper

First Term General Science (E)

Subject Code S-2035
Total No. of Questions :-40 Maximum
Marks:40.

1. Respiration is an _____.

1 mark

(A)Endothermic
(B) Exothermic
(C) Combination
(D)Reduction

2. Rusting of iron is _____.

1 mark

(A) Reduction
(B) Endothermic
(C)Oxidation
(D) Displacement

3. Decomposition of vegetable matter is _____.

1 mark

(A) Exothermic
(B)Oxidation
(C)Reduction
(D) Endothermic

4. A natural indicator is _____.

1 mark

(A) Hydrochloric acid
(B) phenolphthalein acid
(C)litmus
(D) pH indicator

5.The acid present in Vinegar is_____.

1 mark.

(A) Methanoic acid
(B) Tartaric acid
(C)Acetic acid
(D) lactic acid

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1 mark

6.The gas given out to extinguish the fire is _____.

(A) Carbon dioxide
(B)Oxygen
(C) Methane
(D)Nitrogen

7.The reaction between an acid and a base is called _____. 1 mark

(A) Oxidation reaction,
(B)Decomposition reaction
(C) Neutralization reaction.
(D)Redox reaction

8. Coal, petroleum and natural_____. 1 mark

(A) Biogas
(B)Slurry
(C)Man-made resources
(D) fossil fuels

1 mark

9. Fractured bones are plastered using _____.

(A)Baking soda
(B)Plaster Of Paris
(C)Washing Soda
(D)Bleaching powder

1 mark

10.The non-metal thas has Lutre is.

(A)Carbon
(B) Sulphur
(C)Oxygen
(D)Iodine

11. The allotrope of carbon that is the hardest substance is _____. 1 mark

(A)Diamond
(B)Graphite
(C)Sulphur
(D)Copper

12. The property of metal that produces sound is_____. 1 mark

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(A) Lustre
(B)Malleability
(C)Sonorous
(D)Ductility

13. Electric wires are coated with _____. 1 mark

(A)Paper
(B)Coir
(C)PVC
(D)Iron

14.Gas given out when metal reacts with acid_____. 1 mark

(A)Oxygen
(B)Hydrogen
(C)Carbondioxide
(D)Methane

15. The metal used in thermometer is_____. 1 mark

(A) Copper
(B) Sulphur
(C)Iodine
(D)Mercury

16. Insulin is produced by the_____. 1 mark
(A) Intestine
(B) Stomach
(C)Pancreas
(D) Gallbladder

17. Spinal cord is protected by_____. 1 mark

(A)Ribs
(B) Vertebral Column
(C)Skull
(D) Bones

18. Actions that Involuntary actions can control are called_____. 1 mark

(A) Involuntary actions
(B) Reflex action

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(C)Voluntary actions
(D)Slow motion actions

1 mark

19. Deficiency of iodine in our diet causes_____.

(A) Diabetes
(B) Goitre
(C)Dwarfism
(D)Salivation

20. The receptors in the cell body that receive information are_____. 1 mark

(A)Nerve ending
(B)Axon
(C)Dendrite
(D) Nucleus

21. We can coalk in a straight line. This is controlled by the_____. 1 mark

(A)Cerebrum
(B)Cerebellum
(C)Medula
(D)Spinal cord

22. Salivation and vomiting is controlled by_____.

1 mark

(A) Medula
(B)Spinal Cord
(C)Cerebellum
(D) Cerebrum

23) The part of the male reproductive system that provides nutrition for the sperm is _____.

1 mark

(A) Prostate and seminal vesicles
(B) Testis
(C) Penis
(D)Vas deferens

24.The development of the baby inside the mother takes approximately

1 mark

(A) 9months
(B)6 months
(C)8 months
(D) 10 months.

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25) The fusion of the male gamet and female gamet to form the Zygote is called _____. 1 mark

(A)Puberty
(B) Menstruation
(C)Fertilisation
(D)Digestion

26) Testes produces hormone called as_____. 1 mark

(A) Thyroxine
(B) Insulin
(C)Estrogen
(D)Testosterone

27) Disease that can be transmitted through sexual contact is_____. 1 mark

(A)HIV-AIDS
(B) T-B
(C)Cholera
(D)Rabies

28.Blocking of vas deferens in males by surgical method is called_____. 1 mark

(A) Tubectomy
(B) Vasectomy
(C)Family planning
(D)Pregnancy

29.The ovules are present in the_____. 1 mark

(A) Sepals
(B) Stigma
(C)Style
(D) Ovary

30. The ovary develops into the _____. 1 mark

(A)Fruit
(B) Seed
(C)Vegetable
(D)Root

31. Female reproductive part of the flower is_____. 1 mark

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(A) Style
(B) Stamen
(C)Carpel
(D)Stigma

32.The transfer of pollen grains from the stamen of one flower to the stigma of another plant is_____. 1 mark

(A) Self pollination
(B) Cross pollination
(C)Fertilization
(D) Ovulation 1 mark

33.Reproduction in the Bryophyllum plant is by _____.

(A) Sexual reproduction
(B) Budding
(C) Vegetative propagation
(D) Regeneration 1 mark

34. The development of the embryo into a seedling which develops into a new plant is _____.

(A) Reproduction
(B) Fusion
(C)Fertilization
(D) Germination 1 mark

35. The instrument used to measure current is_____.

(A) Fuse
(B) Ammeter
(C)MCB
(D)Screwdriver tester 1 mark.

36. In an electric bulb electrical energy is converted to _____.

(A)Heat only
(B)Heat and light
(C)Light only
(D)Solar energy.

37. An example of a gadget used in a 15 amp is _____. 1 mark

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(A)Geyser
(B)Light bulb
(C)Electric fan
(D) Iron

38.The colour of the live wire is_____.

1 mark

(A)Blue
(B)Yellow
(C)Red
(D)Green

39. Unit of potential difference is_____.

1 mark

(A)Volt
(B)Ampere
(C)Watt
(D)Ohm

40. The Filament used in electric bulbs is_____.

1 mark

(A)Zinc
(B)Copper
(C)Tungsten
(D)Iron

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Answer Key
C.W.S.N

| | | |
|---|---|---|
| 1. | B-Exothermic. | 1 mark |
| 2. | C-Oxidation | 1 mark |
| 3. | A-Exothermic. | 1 mark |
| 4. | C-Litmus. | 1 mark. |
| 5. | C-Acetic acid. | 1 mark |
| 6. | A-Carbon Dioxide | 1 mark |
| 7. | C-Neutralisation Reaction. | 1 mark |
| 8. | D-Fossil fuels. | 1 mark |
| 9. | B-Plaster of Paris | 1 mark |
| 10. | D-Iodine. | 1 mark |
| 11. | A-Diamond | 1 mark |
| 12. | C-Sonorous | 1 mark |
| 13. | C-PVC | 1 mark |
| 14. | B-Hydrogen | 1 mark |
| 15. | D-Mercury | 1 mark |
| 16. | C-Pancreas | 1 mark |
| 17. | B-Vertebral column | 1 mark |
| 18. | C-Voluntary actions | 1 mark |
| 19. | B-Goitre | 1 mark |
| 20. | C-Dendrite | 1 mark |
| 21. | B-Cerebellum | 1 mark |
| 22. | A-Medula. | 1 mark |
| 23. | A-Prostate and seminal. | 1 mark |
| 24. | A-9 months | 1 mark |
| 25. | C-Fertilisation. | 1 mark |
| 26. | D-Testosterone | 1 mark |
| 27. | A-HIV-AIDS | 1 mark |
| 28. | B-Vasectomy | 1 mark |
| 29. | D-Ovary. | 1 mark |
| 30. | A-Fruit. | 1 mark |
| 31. | C-Carpel | 1 mark |
| 32. | B-Cross pollination | 1 mark |
| 33. | C-Vegetative propogation. | 1 mark |
| 34. | D-Germination | 1 mark |
| 35. | B-Ammeter | 1 mark |
| 36. | B-Heat and light | 1 mark |
| 37. | A-Geyser. | 1 mark |
| 38. | B-Red. | 1 mark |
| 39. | A-Volt | 1 mark |

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40. C-Tungsten 1 mark

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MODEL PAPER
Second Term
General Science (E)
S-2035 Maximum Marks 30

1. A. Select the Most appropriate answer form those given below (Tick the right answer)

a) Electricity obtained from burning of coal is called _____. ½mk
(i) Themal electricity
(ii) Hydel electricity
(iii)Bio electricity

b) Submerged vegetation by a high rise dam results in release of large amount of _____ ½mk
(i) Carbon dioxide
(ii) Carbon monoxide
(iii) Methane

B. Look at the picture and answer the question



a) Identify the Picture 1 mk
b) What energy conversion takes place in this case. 1 mk

C. Look at the picture and answer the question. 1 mk

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a) Why is electricity obtained from high rise dam renewable source of energy? 1mk

2. A. Select the most appropriate words from those given below (Tick the right answer)

a) The lining of the stomach is protected by_____

(i) Hydrochloric acid ½mk

(ii) Mucus

(iii) Nitric acid

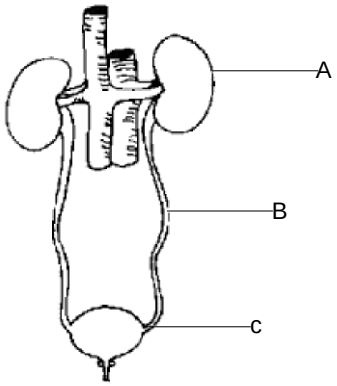
b) Bile juice is secreted by_____

(i) Pancreas

(ii) Intestine

(iii) Liver

B. Excretory system helps in the removal of nitrogenous waste from the body,




a) Identify the part labeled as 'B' 1 mk

b) What is the function of the urinary bladder labeled as 'c' 1mk

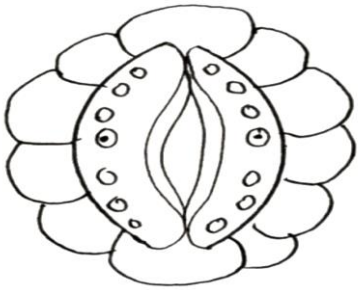
c) Approximately how much of total amount of urine that is produced in one day? 1mk

C. Given below is a diagram of an open stomatal pore .label 1mk

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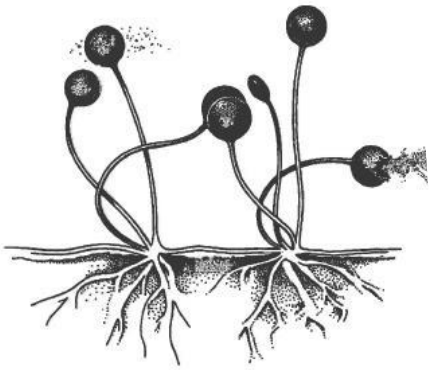
(a) Guard cell
(b) Chloroplast



D. Match the gland in column A with the enzyme in column B and write the correct answer in Column C 1 ½mk

| Column A | Column B | Column C |
|---|---|---|
| 1. Salivary gland | (a) Bile salts | _____ |
| 2. Liver | (b) Pepsin | _____ |
| 3. Pancreas | (c) Amylase | _____ |
| | (d) Lipase | |

E. Look at the picture and answer the question ½mk



a) The above picture is a _____
(i) Parasite
(ii) Saprophyte
(iii) Autotrophes

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b) Name two parasite in animals
1mk

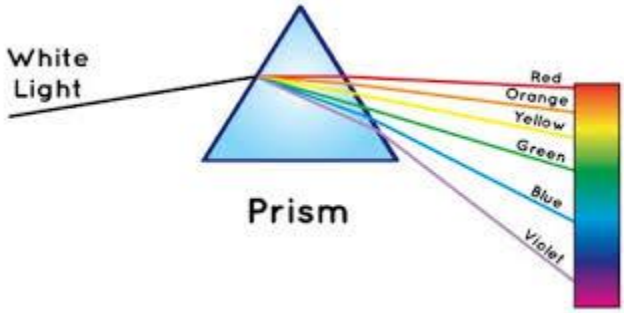
3. A. Select the most appropriate word from those given below .Tick the rights answer.
a) The part of the eye that gives the eye its colour is the _____
(i) Iris
½mk
(ii) Ciliary body
(iii) Cornea

b) The near point for a young adult of normal vision is _____
(i) 15 cm
½mk
(ii) 25cm
(iii) 50cm.

(c) The Thin transparent covering that forms a bulge in front of the eye is called the _____
(i) Ciliary body ½mk
(ii) Iris
(iii) Cornea

(d) Cataract in the eye occurs in _____
(i) Old age
(ii) St Birth
(iii) Puberty.

B. Observe the Picture and answer the given questions.




a) What is this phenomenon of splitting up of white light into different colors' called? 1mk
b) what is this band of colours called 1mk

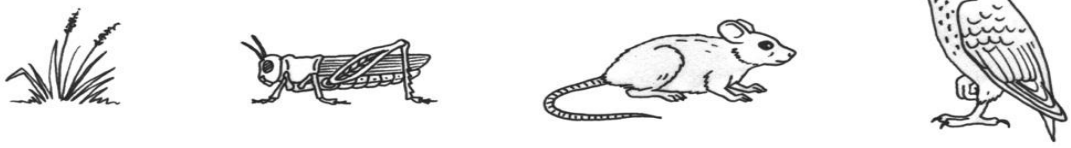
C. In the picture given below (a) shows the front of the spoon and (b) shows the back of the spoon write against the alphabet the name of the mirror.

a) _____ b) _____ 1mk

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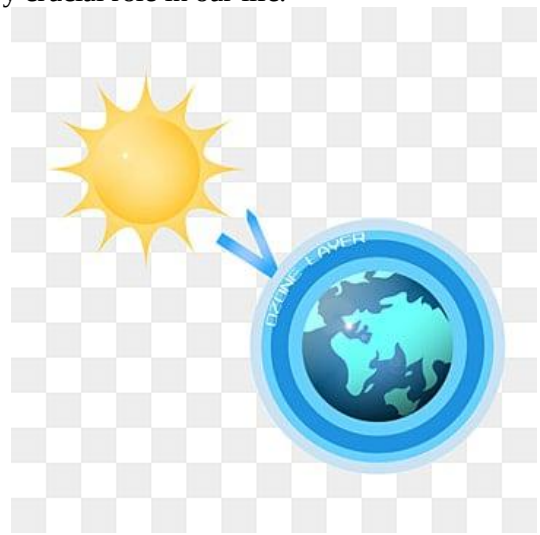
D Dentist uses mirrors to observe all sides of our teeth.
a) Name the type of mirror used by them

4. A. Study the food chain given below 2mk



a) Name the producer
b) Name the primary consumer.

B. Ozone layer performs a very crucial role in our life.




a) Why is ozone layer important? 1mk
b) The formula of ozone is _____(tick the right answer)
(i) O ½mk
(ii) $O_3$
(iii) $O_2$

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C. Select the most appropriate word from those given below . Tick the right answer.

a) An example of non –biodegradable substance is _____
(i) Paper ½mk
(ii) Plastic
(iii) Kitchen waste

(b) Give another example of a non -biodegradable substance that we add to our environment 1mk

(c) Name any one biotic component of a garden. 1mk

Q 5. A. Select the most correct alternative from given below (Tick the correct answer)

a) The old age practice of rain water harvesting is _____
(i) Building big dam's ½mk
(ii) Digging of small ponds and lakes
(iii) Construction of big tanks

b) The three R's are Reduce, Recycle and _____
(i) Regenerate ½mk
(ii) Reuse
(iii) Renuate

(C) Growing of one type of tree like teak is called _____
(i) Agriculture ½mk
(ii) Pisciculture
(iii) Moncoculture

(d) Biodiversity hotspots is _____ ½mk
(i) Forest
(ii) Zoo
(iii) Pond

B. Conservation of forest is the need of the hour.



a) Name any one stakeholder of forests 1mk
b) Name a forest produce which is source of raw material for industries 1mk

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C. Look at the picture and answer the questions




a) What is the method of storing water shown in the above picture called? 1mk

b) Write one advantage of storing water underground. 1mk

## Answer key

1 A.

a) i- Thermal electricity ½mk

b) iii – Methane ½mk

B. a) wind mill farm 1mk

b) Kinetic energy of wind is converted to mechanical energy. 1mk

C

a. Because the water in the reservoir keeps getting refilled by the rain 1mk

2. A

a) ii – Mucus ½mk

b) iii- liver ½mk

B. a) Ureter 1mk

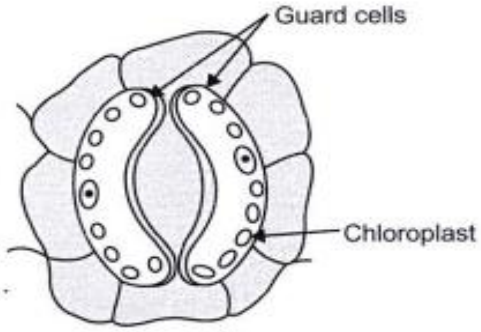
b) It stores the urine 1mk

c) 1-2 liters 1mk

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C.




D. Colum

| | |
|---|---|
| 1- (c) | ½mk |
| 2- (a) | ½mk |
| 3- (d) | ½mk |

E

| | |
|---|---|
| ii- Saprophyte | ½mk |

b. leeches, ticks .lice, tapeworm, roundworm 1mk
(Any two)

B. A.

| | |
|---|---|
| a. i- Iris | ½mk |
| b. ii-25cm | ½mk |
| c.ii- Cornea | ½mk |
| d. i-Old age | ½mk |

B.

| | |
|---|---|
| a. Dispersion of light | 1mk |
| b. Spectrum | 1mk |

C.

| | |
|---|---|
| a) Concave mirror | ½mk |
| b) Convex mirror | ½mk |

D.

| | |
|---|---|
| a) Concave mirrors | 1mk |
| a. Plants | 1mk |

4A.

| | |
|---|---|
| a. Plants | 1mk |
| b. Rat | 1mk |

B.

a. Ozone layer protects us from the damaging ultraviolet rays of the sun

| | |
|---|---|
| b.$O_3$ | ½mk |

C. a.

| | |
|---|---|
| ii plastic | ½mk |
| b. Glass, thermacol | 1mk |
| c. Plants, garden, lizards, butterflies | 1mk |

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Q5. A.

a. (ii) Digging of small ponds and lakes ½mk

b. (ii) Reuse

c. (iii) Monoculture

d.(i) forest

B.

a)

(1) Industrialists and conservationists 1mk

(2) Wild life and nature enthusiasts

(3) Local People (anyone)

(4)The forest department of the government

(b) Timber, Firewood, Bamboo 1mk

C.

a. Roof top water harvesting 1mk

b.

(1) The water does not evaporate 1mk

(2) It does not breed mosquitoes

(3) It is protected from human contamination

(4) It spreads out underground and recharges well (Anyone)

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