

Class: VII

Subject :SCIENCE

SECTION A

1. 1MARK Loamy
2. 1MARK 40km/h.
3. 1MARK weathering of rocks
4. 2MARKS a; cockroach-tracheal tubes and spiracles b; frog-lungs and skin
c; plants= stomata d; earthworm-moist skin
5. 2MARKS Refer fig no11.3 on page123 of textbook
6. 2MARKS
WBC –They help us fight against diseases
Platelets_ They help in clotting the blood
7. 2MARKS

S.NO	ASEXUAL REPRODUCTION	SEXUAL REPRUDUCTION
1	seeds not formed	seeds formed
2	vegetative parts are involved	reproductive parts are involved

8. 2MARKS Refer fig no12.5 on page 135
9. 2MARKSfig 14.8 on page163 of text book
- 10.2MARKS Name the kind of mirror used
 - 1: head lights of car- concave mirror
 - 2: by Dentists-concave mirror

- 11.3MARKS Complete this table with words MAXIMUM, LEAST, MEDIUM

Sl No	Characteristics	sandy soil	loamy soil	clayey soil
1	Particle size	maximum	medium	least
2	Absorption of water	least	medium	maximum

12. 3MARKS .
The time period of pendulum? $32/20=1.6$ s
b: Refer fig no13.4 on page 146

13. 3MARKS

1. reuse water used to wash vegetables in kitchen garden
2. water used for rinsing clothes can be used in toilets
3. use bucket of water instead of shower to bath
or any other method

14. 3MARKS

Some of the forest products are wood, gum, sealing wax, medicines, paper, oils etc.

15. 3 MARKS:

1. bar screens
2. grit and sand
3. Decreased.
4. Sludge.
5. Clarified.
6. aerobic .

16. a) 3MARKS Write any three differences between aerobic and anaerobic respiration.

S.NO	Aerobic respiration	Anaerobic respiration
1	Occurs in presence of oxygen	Occurs in absence of oxygen
2	Complete breakdown of glucose into CO_2 and H_2O occurs	Glucose is partially broken down into alcohol and CO_2
3	More energy released	Less energy released

b) 2MARKS when oxygen availability is less anaerobic respiration occurs in muscle cells and lactic acid is produced which results in muscle cramps. We can get relief by a massage or by a hot water bath

or

a) 2marks the number of times a person breathes in a minute is termed as breathing rate .it increases during a exercise

b) 2marks sleeping reading jumping, running

c) 1 mark (anyone)

S.NO	Exhaled air	Inhaled air
1	The air given out during breathing	The air taken in during breathing
2	It is rich in CO_2	It is rich in O_2

17. a) 2marks

The wire gets hot when electric current passes through it. This is called heating effect of electric current

b) 1mark

electric heater, electric room heater, geyser or any other

c)2marks

A fuse is an electric device which prevents damage to electrical circuits and possible fires. They have a fuse wire which melts and breaks when excess current flows through the circuit thus breaking the circuit and help in saving electric appliances and possible fires

or

a)2marks

When electric current passes through a wire, it behaves like a magnet. This is called magnetic effect of electric current'

b)1mark Hans Christian Oersted discovered magnetic effect of electric current

c)2marks

Coils which behave as a magnet when current passes through them are called electro magnets .two uses of electromagnets are in electric bells, lifting heavy loads, separating magnetic material from junk or any other use.

18. a) 1mark

The change in direction of light when it falls on a mirror or other surfaces is called reflection of light

b) 2marks what are four characteristics of image formed by plane mirror?

The image formed by a plane mirror is erect

It is of the same size as object

It shows lateral inversion

It is at a same distance from the mirror as the object

It is virtual (any four)

c)2marks.

1 .Real images can be obtained on a screen whereas virtual images cannot be obtained on a screen

or

a)2marks:

The two types of mirrors are concave mirror and convex mirror diagram on page 179 of text book

b) 1markconvex lens

c)2marks draw what happens when sunlight falls on a prism diagram on page186 it splits into seven colours VIBGYOR

SECTION B**MCQ (1M EACH)**

19. b) plants,
20. b) The amount of air available to a person is less than available on ground
21. c) capillaries.
22. c) Bryophyllum
23. b) drumstick
24. a) km/h
25. c)
26. a) positive terminal
27. b) convex
28. c) heavy rainfall
29. a) 22nd March
30. d) kerosene
31. b) II and III