



BK BIRLA CENTRE FOR EDUCATION
SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL



MID-TERM EXAMINATION 2023-24

SCIENCE (MARKING KEY)

Class : V
Date : 16/10/2023
Admission No.:

Duration : 3 Hrs
Max. Marks : **80**
Roll No.:

I Choose the correct option.

16x1=16 marks

1. Vitamin good for eyes: :
(a) Vitamin A (b) Vitamin B (c) Vitamin C
2. Vitamin good for growth. 1
(a) Vitamin A (b) Vitamin B (c) Vitamin C
3. Vitamin needed to fight with diseases. 1
(a) Vitamin A (b) Vitamin B (c) Vitamin C
4. Vitamins needed for healthy bones. 1
(a) Vitamin D (b) Vitamin E (c) Vitamin F
5. Vitamin needed for good skin. 1
(a) Vitamin D (b) Vitamin E (c) Vitamin F
6. The layer of atmosphere in which we live in: 1
(a) Troposphere (b) Stratosphere (c) Mesosphere
7. The layer of atmosphere in which jet plane fly . 1
(a) Troposphere (b) Stratosphere (c) Mesosphere
8. The layer of atmosphere in which meteors burn up: 1
(a) Troposphere (b) Stratosphere (c) Mesosphere
9. The layer of atmosphere in which space shuttle orbits: 1
(a) Thermosphere. (b) Exosphere. (c) none of these.
10. The layer of atmosphere in which air is very thin: 1
(a) Thermosphere. (b) Exosphere. (c) none of these.
11. A baby has _____ bones. 1
(a) 300 (b) 206 (c) none of these
12. An adult has _____ bones. 1
(a) 300 (b) 206 (c) none of these

13. Rib cage has _____ true ribs. 1
(a) 7 (b) 15 (c) 20
14. Rib cage has _____ false ribs. 1
(a) 3 (b) 15 (c) 20
15. Rib cage has _____ floating ribs. 1
(a) 2 (b) 15 (c) 20
16. _____ horizon is made up of only rocks. 1
(a) Horizon R (b) Horizon B (c) Horizon C

II Assertion / Reasoning

4x1=4 marks

Directions: In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as:

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
(b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
(c) If Assertion is true but Reason is false.
(d) If both Assertion and Reason are false.

- 17. Assertion:** We have five sense organs; these help us for proper functioning. 1

Reasoning: Each of the five sense organ has specific function.

Ans : (a)

- 18. Assertion:** Brain is divided into three parts- Cerebrum, Cerebellum and Medulla 1

Reasoning: Each part of brain has a specific function.

Ans : (b)

- 19. Assertion:** Cerebrum is the upper part of the brain. 1

Reasoning: It controls our thinking and learning ability.

Ans : (b)

- 20. Assertion:** Medulla is stem shaped. 1

Reasoning: Medulla controls our breathing .

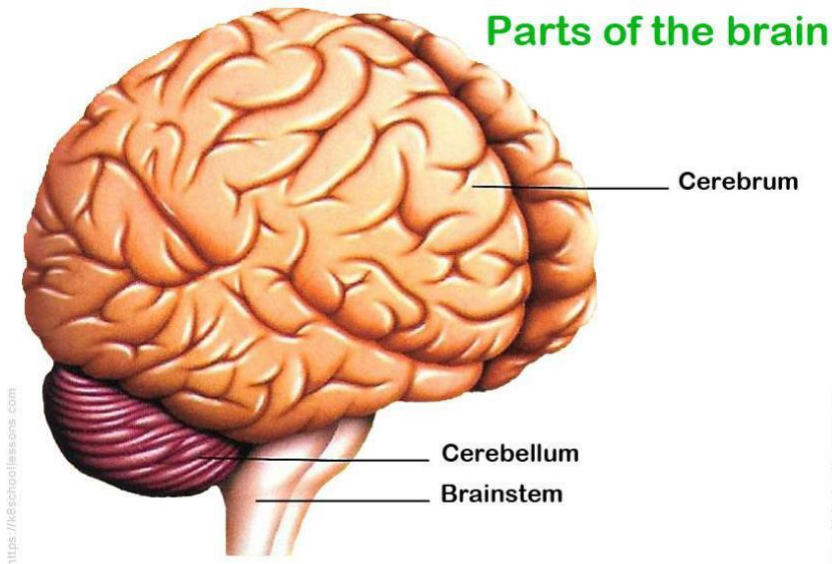
Ans : **(b)**

III Answer the following Questions.

6x12=12marks

21. Explain parts of the brain with the help of a diagram and label: Cerebrum, Cerebellum and Medulla. 2

Ans: Diagram.



OR

Explain functions of the brain

Ans: Brain is divided into 2 parts.

Left brain and right brain.

Left brain controls right side of the body.

Right brain controls left side of the body.

Brain can light up a bulb.

It is faster than super computer.

22. What is a joint? 2

Ans: A joint is a point where two bones meet.

23. Mention fat soluble vitamins. 2

Ans: Fat soluble vitamins are

Vitamin E

Vitamin K

Vitamin A

Vitamin D

24. Mention water soluble vitamins.

2

Ans: Water soluble vitamins are:

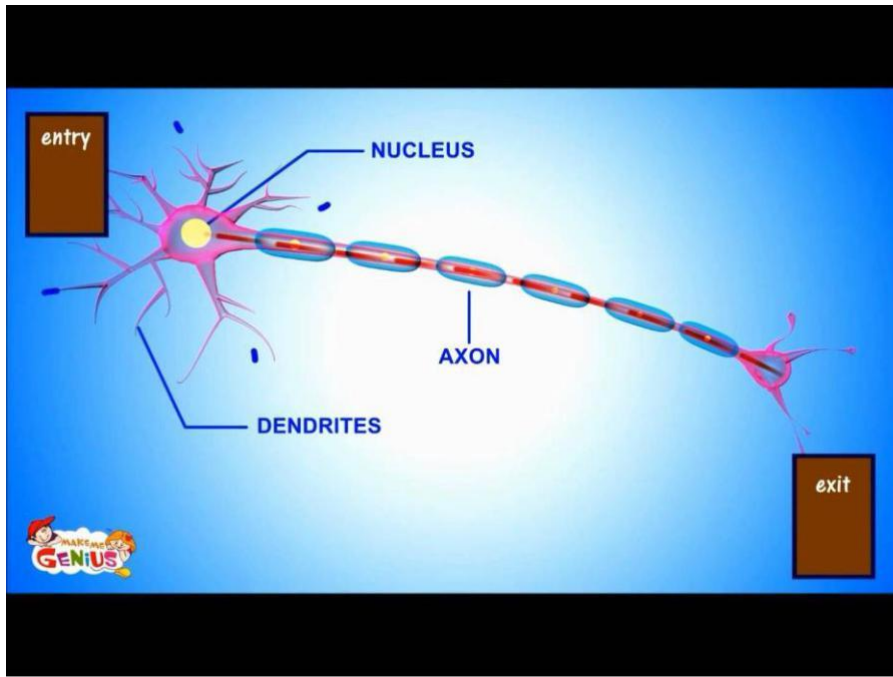
Vitamin B

Vitamin C

25. Draw neuron.

2

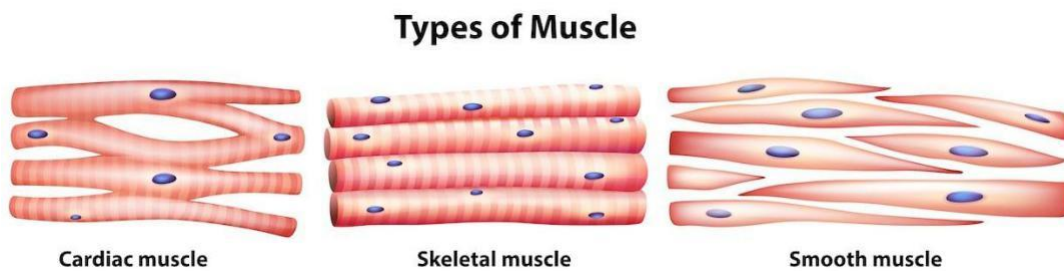
Ans: Diagram



26. Explain smooth and cardiac muscle with the help of a diagram.

2

Ans: Diagram



IV Answer the following.

7x3=21marks

27. How can we keep the soil from washing or blowing away?

3

Ans: We can keep the soil from washing and blowing away by planting trees in a row.

Diagram

28. Mention properties of water.

3

Ans: Water has no colour.

Water has no taste

It has no smell.

It has no shape.

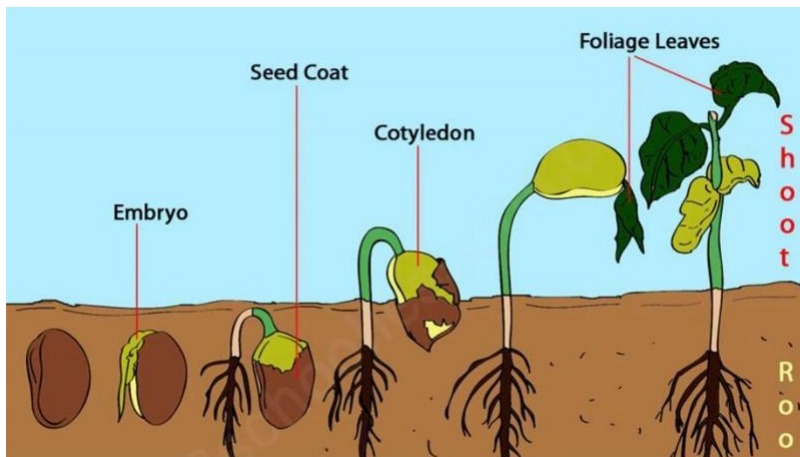
We can mix many things in water.

It is a universal solvent.

29. Explain germination of seed with the help of a diagram.

3

Ans: Diagram



30. Explain cerebrum.

3

Ans: The cerebrum is the upper part of the brain.

It is dome shaped.

It has ridges and grooves.

It looks like a walnut.

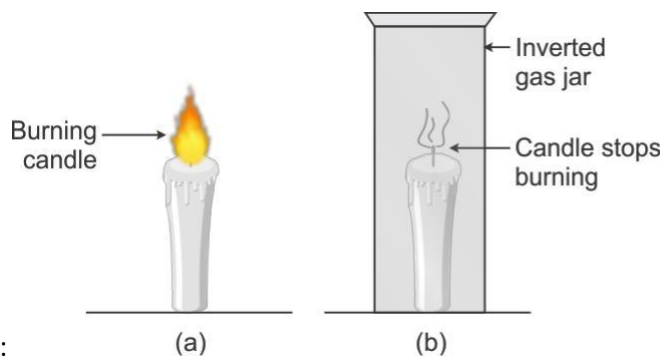
It is largest part of the brain.

It controls our thinking, learning abilities, memory and basic intelligence.

It controls our sense organs.

31. Prove with the help of an experiment that air is needed for burning.

3



Ans:

(a)

(b)

For this experiment we need a jar, candle and match box.

Take a candle.

Light it up.

Take a jar

Put it on candle.

Wait for some time.

After sometime candle blows away.

It proves that air is needed for burning.

32. Mention uses of air.

3

Ans: We breathe with the help of air.

Birds fly with the help of air.

Wind mill move with the help of air.

Kite fly with the help of air.

Boat sail with the help of air.

Air is needed for burning.

We fill air in balloon, ball, tyre

33. What do you mean by sedimentation? Explain.

3

Ans: Take a beaker.

Put soil in it.

Put water

Keep it for sometime.

After sometime soil will settle down.

This process is known as sedimentation.

Diagram.

V Answer the following questions.

3x4=12marks

34. Read the passage and answer questions.

Soil is important for all of us. Plants grow in soil. Many worms live in soil.

Soil has many pores. Some pores are big. Some are small. Some are very

Small. Big pores hold more water. Small pores hold little water. Very small

Pores hold very little water.

Earthworms dig into the soil and make it porous. Earthworm is also known

As farmers friend

(a) How does water stay in soil?

2

Ans: Soil has many pores.

Some pores are big.

Some pores are small.

Some pores are very small.

Big pores hold lot of water.

Small pores hold little water.

Vary small pores hold very little water.

Diagram.

(b) Name the worm which is known as farmers friend and make the soil porous.

2

Ans: Earthworm is known as farmers friend and make the soil porous.

Porous soil can hold lot of air and water.

Seed needs air and water for germination and growth.

35. Read the passage and answer questions

The thick layer of air that surrounds the earth is called atmosphere. Earth holds the atmosphere.

Atmosphere has many layers- Troposphere, Stratosphere, Mesosphere, Thermosphere and Exosphere.

Troposphere – It is the lowermost layer of the atmosphere.

Stratosphere- This is the second layer of atmosphere. It has ozone layer. Mesosphere- Meteors burn up in this layer.

Thermosphere- Space shuttle orbits in this layer. Exosphere- Air is very thin in this layer.

(a) Explain layers of atmosphere with the help of a diagram.

2



Ans:

(b) How many layers are there in atmosphere.

2

Ans: There are five layers in the atmosphere.

36. Read the passage and answer questions

Seed need sunlight, air and water to grow into plants. To grow well seed should be far away from each other. The movement of seed from parent plant is called seed dispersal. Seed are dispersed in different ways. They are carried away by wind, water or animals. These are called agents of seed dispersal.

(a) What is seed dispersal? Explain with the help of a diagram.

2

Ans: Seed dispersal is movement of seed away from parent plant.

Seed dispersal by wind.

Seed dispersal by water.

Seed dispersal by animals.

Seed dispersal by explosion.

(b) Mention agents of seed dispersal.

2

Ans: Agents of seed dispersal are:

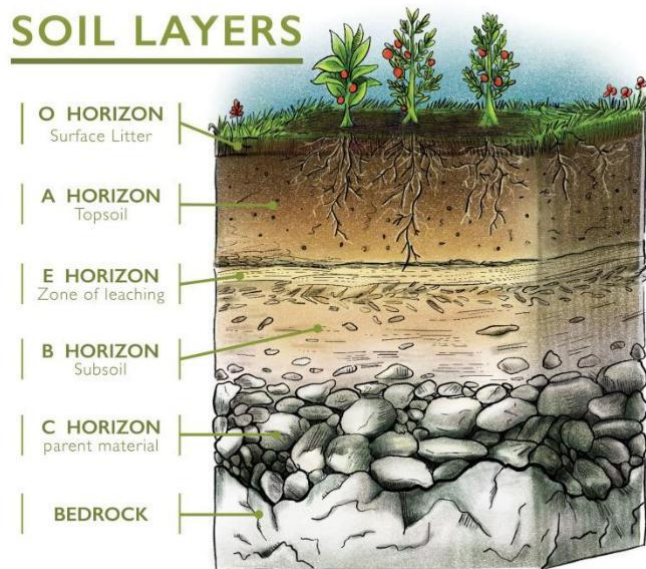
Wind, water and animals.

VI Answer the following in detail.

3x5=15marks

37. Explain horizons of soil with the help of a diagram.

5



Ans:

38. Explain the cage like structure that protect heart and lungs.

5

Ans: The cage like structure that protect heart and lung is rib cage.

It has 12 pairs of ribs.

First 7 ribs are true ribs.

6,7,and 8 are false ribs.

9 and 10 are floating ribs.

Diagram,

39. What do you mean by vegetative propagation? Explain.

5

Ans **(i) Vegetative propagation by stem.**

Take a rose stem.

Cut it into 15 pieces.

Put it in soil

Pour water

Keep it in sunlight.

We see roots growing.

We see shoot growing.

(ii)Vegetative propagation by leaf.

Take a leaf.

Take a pot.

Fill water in the pot.

Put leaf in it.

Wait for 10 to 15 days.

We will see roots arising from each notch of the leaf (bryophyllum)

After few days we will see shoot arising from each notch.

From 1 leaf we will get 10 to 15 plants.