

New Mehran

MAYARI SCIENCE

Class-2

(THECHAR GUIDE)

Unit-1

BODY SYSTEM

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

Q.1: Why do we need food?

Ans: We need food to live.

Q.2: How does oxygen reach in our body?

Ans: Oxygen reaches in our body from our lungs.

Q.3: What is the function of oxygen in our body?

Ans: We breath with the help of oxygen.

Q.4: Why is rest needed for our body?

Ans: If rest is not be taken, the body can not work much and becomes lazy.

Q.5: What does the stomach do?

Ans: Stamach digests our eatan food.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

1. Our whole body is like a MACHINE.

2. Our BODY Makes different kinds of movements.

3. We need Oxygen to breathe.

4. Our body needs FOOD to perform function.

5. Heart is the strongest ORGAN of the human body.

(C) TICK THE RIGHT ANSWER.

1. The organs of our body work:

- a) like a vehicle
- b) like a machine ✓
- c) like a device

2. Our movements are controlled:

- a) by heart b) by liver
 c) by brain ✓
3. Our taken food is digested:
 a) in lungs b) in stomach ✓
 c) in guts

(D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

1. Heart controls the body movements. (x)
 2. We use carbon dioxide to breathe. (x)
 3. Our heart delivers blood to whole body. (✓)
 4. Energy is needed to live. (x)
 5. Liver receives oxygen from air and sends it to blood. (x)

(E) MATCH COLUMNS:

COLUMNS A	COLUMNS B
Our body is like	in stomach
Taken food is digested	from food
Energy is got	by our heart
Blood is pumped	a machine

Unit-2

HUMAN SENESS

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Q.1: How do we see things?
 Ans: We see things with the help of eyes.
 Q.2: How do we smell aroma and feel of anything?
 Ans: We smell aroma and feel of anything with our nose.
 Q.3: Which senses has Allah Almighty given to human beings?
 Ans: Allah has given five sense e.g: to smell, to see, to hear, to taste and to touch to human beings.
 Q.4: How is an eye useful to us?
 Ans: An eye is useful to us to see things.
 Q.5: What kind of our skin is?
 Ans: Our skin is very sensitive.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

1. The function of eye is to SEE.
 2. Allah has blessed man with TWO ears to hear other's Speech.
 3. Allah has made our skin very SENSITIVE.
 4. Taste is of MANY kinds.
 5. We can smell aroma and feel of anything by OUR NOSE.

(C) TICK THE CORRECT OPTION.

1. Allah has blessed human being with:



- a) two senses b) three senses
c) five senses✓
2. Taste of anything is felt:
a) by tongue ✓ b) by skin c) by nose
3. We can smell aroma or feel presents in the air:
a) by ear b) by nose ✓ c) by eyes
- (D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.**
- Allah Almighty has created nose to smell things. (✓)
 - We can hear other's talks with the help of eyes. (X)
 - Things can be felt by skin. (X)
 - Walking under blazing sun can damage eyes. (✓)
 - Tongue can not feel salty taste. (X)

(E) MATCH COLUMNS:

COLUMNS A	COLUMNS B
Sense of seeing	nose
Sense of smelling	ear
Sense of hearing	tongue
Sense of tasting	eye

**OUR FOOD****EXERCISE**
(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Q.1: What does the body need to function properly?
Ans: The body need proper nutrient to perform function properly.
- Q.2: What is called nutrient?
Ans: Our food contains some important ingredients and these are called nutrients.
- Q.3: What do we obtain most in food?
Ans: We obtain carbohydrate most in food.
- Q.4: What is function of protein in our body?
Ans: Protein makes flesh in our body.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

- Our food contains some important INGREDIENTS.
- We need more CARBOHYDRATE in our food.
- Protein makes FLESH in our body.
- We must drink almost ten to twelve glasses of WATER in a day.
- Calcium strengthens our bones and TEETH .

(C) TICK THE CORRECT OPTION.

- In food we need much:
a) water b) mineral c) carbohydrate✓
- Important ingredients present in food are called:
a) nutrient ✓ b) energy c) vitamin



3. Calcium strengthens:
 a) ear b) hair c) teeth✓

(D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

1. We get nutrient through one means only. (x)
2. Important ingredients present in food are called nutrients. (✓)
3. Protein is also called proteins. (✓)
4. Our body needs much vitamins. (x)
5. Calcium is not found in liverwurst. (✓)

(E) MATCH COLUMNS

COLUMNS A	COLUMNS B
Carbohydrate	From 10 to 12Glasses
Protein	Bread, bun, potato
We must drink	Milk, cheese, butter, Yogurt
More energy than Carbohydrate	Meat, chicken, eggs

Unit-4

ANIMALS AND THEIR SHAPES

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Q.1: How do animals lead their life?
 Ans: Each animal leads life according to its environment.
- Q.2: What is the function of animal's colour and shape?
 Ans: Colour and hide of some animals help them to escape from other animals.
- Q.3: Why does polar bear have fur on its body?
 Ans: Polar bears have fur to save them from severe cold.
- Q.4: For what reason butterflies are attractive?
 Ans: Butterflies are attractive for their beautiful colours.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

1. Every animal leads its life according to its ENVIRONMENT.
2. Animals have fur, hide or WINGS on their bodies.
3. These feathers ADDS to the beauty of peacock.
4. Different butterflies are very charming because of their COLOUR.

(C) TICK THE CORRECT OPTION.

1. Perched among the green trees can not be seen:
 a) crow b) parrot✓ c) pigeon

2. Hair on a dog saves it from:
a) from enemies b) from cold c) blazing heat ✓

3. At the time of danger changes its colour:
a) crocodile b) chameleon ✓ c) kangaroo

(D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

1. All animals live in same environment. (x)
2. Man evades his enemies due to his environment. (✓)
3. The shell of tortoise is very weak. (x)
4. Hair of a horse save it from the intensity of heat. (✓)
5. Echidna has a soft fur on its body. (x)

(E) MATCH COLUMNS

COLUMNS A	COLUMNS B
Grasshopper can not be seen	freezing cold
Fur of polar bear saves it	snake
Has a hard shell	in green grass
Frightens	tortoise

Unit-5

MAMMALS

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

Q.1: What are called mammals?

Ans: Animals which suck milk in their early days and have fur on their body are called mammals.

Q.2: Why mammal animals are useful for us?

Ans: Cow, Buffalo, Horse, Donkey, Dog, Cat, Camel etc.

Q.3: Which mammals watches over our home?

Ans: Dogs watches over our home.

Q.4: Why do people consider Whale as a fish?

Ans: People consider whale as a fish because whale lives under the deep sea.

Q.5: Which mammals' flesh do we eat?

Ans: We eat flesh of Cow, Buffalo and Goat.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

- Commonly mammals take BIRTH TO THEIR BABIES.
- Those ANIMALS which we tame at our home are also called mammals.
- Donkey is used to lift heavy LOAD.
- LEATHER is got from the hides of cows and buffaloes.
- The biggest mammal in the world is WHALE.

(C) TICK THE CORRECT OPTION.

- Suckling animals are called:
a) vertebrate b) mammals✓ c) birds
- From one place to another place heavy load can take:
a) donkey✓ b) dog c) billy goat
- The biggest mammal seen on the earth is:
a) lion b) giraffe c) elephant✓

(D) TICK (✓) THE TRUE AND (X) THE FALSE statement.

- Milk feeding animals are called mammal. (✓)
- Goat is used to take load. (X)
- Milk of a cow and a buffalo is taken. (✓)
- Whale is a kind of fish. (✓)
- Camel is the biggest mammal. (X)

(E) MATCH COLUMNS

COLUMNS A	
Identification of mammal	
Home is watched over by	
The biggest mammal of the World	
Sweaters and blankets are Manufactured	

COLUMNS B	
with wool of lamb	
fur on body	
dog	
whale	

Unit-6

BIRDS

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Which birds can not fly in the air?
Ans: Ostrich and kiwi can not fly in the air.
- Which is the smallest bird?
Ans: Humming bird is the smallest bird.
- What is the feed of birds?
Ans: Some birds eat flowers, some birds eat insects and some birds eat fish.
- How do baby birds look like?
Ans: Baby birds look like their parents in shape.
- Where do birds build their nests?
Ans: Birds build their nests in trees.

(B) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

- All birds can fly in the air. (x)
- The smallest bird is humming bird. (✓)
- All birds lay eggs. (✓)
- Bones of bird are hollow from inside. (✓)
- Normally birds live in burrows on the earth. (x)

(C) TICK THE CORRECT OPTION.

- Kinds of birds in the world are:
 - eight thousands
 - nine thousands✓
 - eleven thousands
- The smallest bird is in the world:
 - wading-bird
 - sparrow
 - humming bird✓

3. Bones of birds from inside are:
 a) adipose b) heavy c) hollow✓

(D) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

1. All birds can not fly in AIR .
2. Almost NINE THOUSANDS kinds of birds are found in the world.
3. All birds lay EGGS .
4. Wings of birds help them TO FLY.
5. Birds have TWO wings.

(E) MATCH COLUMNS

COLUMNS A	
Kinds of birds are	
The height of Wading-bird	
Webbed feet	
Bones of birds	

COLUMNS B	
Hollow	
Duck and penguin	
from 1 to 1.5 meter long	
Almost nine thousands	

Unit-7

PLANTS

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Q.1: Name parts of a plant?
 Ans: Stem, root, leave, flower.
- Q.2: What is the function of root in a plant?
 Ans: Roots help the plant to remain strong under the soil.
- Q.3: Who prepare food for plants?
 Ans: Leaves prepare food for plants.
- Q.4: What is photosynthesis?
 Ans: The process by which green plants make food is called photosynthesis.
- Q.5: Why can we not see the movement of plants?
 Ans: We can not see the movement of plants because their movement is too slow.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

1. Big plants are called TREES.
2. Some plants are CREEPERS which grow with support of trees.
3. Root of a plant is under SOIL .
4. Leaves of trees help TO PREPARE food.
5. Plants STORE extra food.

(C) TICK THE CORRECT OPTION.

1. Plants have parts:
 a) two b) three c) four✓

2. Water reaches from earth to leaves:
- through roots✓
 - through stem
 - through branches
3. The movement of plants can not be seen because it is:
- very fast
 - very slow✓
 - nocturnal
- (D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.**
- Fruit yielding plants are called trees. (✓)
 - Root of a plant is under soil. (✓)
 - Leaves grow on stem. (✓)
 - Plants prepare their food themselves. (✓)
 - Sugar-cane, potato and ginger store their food in roots. (X)

(E) MATCH COLUMNS

COLUMNS A	COLUMNS B
Root	Ginger, potato, sugar-cane
Storage of food in stem	Carrot, radish, sweet potato, turnip and beet
Substance of green colour in Plant	Inside of a plant
Storage of food in root	Chlorophyll

Unit-8

MATTER

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Q.1: What are called solid things?
 Ans: All those things which have particular shape and easily be touched are called solid things.
- Q.2: What is the shape of liquid things?
 Ans: Liquid things do not have particular shape. They contain the shape of container.
- Q.3: How do we come to know that gas occupies space?
 Ans: We come to know that gas occupies space by filling the gas into balloon.
- Q.4: How is any gas changed into liquid?
 Ans: If a gas is cooled down it can be changed into liquid.

(B) TICK THE CORRECT OPTION.

- Those things which have a particular shape and weight are called:
 - solid ✓
 - liquid
 - gas
- List of liquid things:
 - pencil, pen, copy
 - air, oxygen, carbon
 - water, milk, juice✓
- Matter has states:
 - two
 - three✓
 - six

(C) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

- Water and gas are also kind of **MATTER**.

2. Gas also occupies **SPACE** .
3. Thing which can melt is called **SOLID** .
4. Things like air are called **GASES** .

(D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

1. Each of that thing, occupies space is called matter. (✓)
2. Solid things do not have any particular shape. (x)
3. Gas has weight too. (✓)
4. Solid matter can not be changed into liquid. (x)

Unit-9

TEMPERATURE

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Q.1: What is meant by temperature?
Ans: Intensity of coldness and hotness is known as temperature.
- Q.2: Is temperature low or high in those areas where Sun rays fall straight?
Ans: The temperature is high in those areas where the sun rays fall straight.
- Q.3: Which instrument is used to measure temperature?
Ans: Thermometer is used to measure temperature.
- Q.4: At what centigrade point water freezes?
Ans: At zero (0^0) centigrade water freezes.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

1. Where sun rays fall oblique temperature of that place is **HOT** .
2. Sibbi and Jacobabad are the hottest **REGIONS** in Pakistan.
3. In winter season, the temperature of Skardu drops even below **C⁰**.
4. In thermometer **MERCURY** is used to gauge the temperature.
5. The oblique sun rays do not have much **INTENISTY** of heat.

(C) TICK THE CORRECT OPTION.

- Intensity of coldness and hotness of any place is known:
a) environment b) temperature✓ c) season
- Temperature is low in:
a) northern areas✓ b) southern areas c) plain areas
- The temperature of a normal human being is:
a) 95.8 fahrenheit b) 97.5 fahrenheit
c) 98.6 fahrenheit✓

(D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

- Temperature of cold areas is high. (X)
- Sibbi and Jacobabad are the hottest areas of Pakistan. (✓)
- During summer season water freezes in northern areas. (X)
- Temperature is measured on five different scales. (X)
- Water freezes at 0° . (✓)

(E) MATCH COLUMNS

COLUMNS A	
Temperature of normal human Being is	
The coldest area of Pakistan	
Temperature measuring Instrument	
In summer temperature of Sibbi	

COLUMNS B	
Skardu	
50 degree centigrade	
98.6 F	
Thermometer	

Unit-10

MAGNET

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Q.1: Which things are attracted by magnets?
Ans: Iron and steel and their substances are attracted by magnets.
- Q.2: In what shape a magnet is found?
Ans: It is found in round, rod. Likes, button shaped and U-Shaped.
- Q.3: Which poles of a magnet attract each other?
Ans: The opposite poles of a magnet attract each other like north and south pole.
- Q.4: What happens if a magnet is heated?
Ans: If a magnet is heated, its magnetism can be eliminated.
- Q.5: Write names of five things to which a magnet can not attract?
Ans: Wood, stone, plastic, rubber and glass.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

- Magnet is a piece of **METAL**.
- Those things which a magnet can attract are called **MAGNETIC**.
- The poles of a magnet have **MORE** attracting power.
- Magnetic attraction works on a special **PRINCIPLE**.



5. An iron-bar **CAN BE CONVERTED** into a magnet.

(C) TICK THE CORRECT OPTION.

1. A magnet attracts:
a) iron ✓ b) plastic c) glass
2. Same poles of a magnet:
a) attract each other b) repel each other ✓
c) do not affect each other
3. Magnetism can be eliminated by:
a) cooling b) rubbing immensely c) heating✓

(D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

1. Magnet attracts iron made things. (✓)
2. Every magnet has four ends. (X)
3. Some magnets attract glass and plastic. (X)
4. An arc can be made by magnet. (✓)
5. Attraction of a magnet never diminishes. (X)

(E) MATCH COLUMNS

COLUMNS A	COLUMNS B
Magnetic things	Plastic, glass, wood
Non magnetic things	More
Poles of a magnet	iron, pins, nails
Attraction in poles	Northward and southward

**Unit-11**

THE SUN

EXERCISE**(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:**

- Q.1: What is the Sun source of?
- Ans: The sun is the source of light and heat.
- Q.2: How many years ago explosion happened in the sun?
- Ans: 4.5 millions years ago explosion happened in the sun.
- Q.3: What is planet?
- Ans: Fragments of the sun are called planets.
- Q.4: Which planets do not have any moon?
- Ans: Mercury does not have any moon.
- Q.5: What time has the part of earth which faces the sun?
- Ans: The part of the earth which faces the sun has day time.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

1. Sun is the greatest **SOURCE** of light and heat.
2. Gradually these **FRAGMENTS** began to cool down.
3. Our earth has only one **MOON** .
4. **MERCURY** Does not have any moon.
5. How many total **EIGHT PLANETS** in solar system?



(C) TICK THE CORRECT OPTION.

- 4.5 million years ago, the sun:
 - did not have light
 - did not have temperature
 - bore explosion✓
- The broken fragments of the sun are called:
 - moon
 - planet✓
 - meteoroid
- Total planets solar system has:
 - eight ✓
 - sixteen
 - twenty

(D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

- The sun is a star equal to the earth. (x)
- Broken fragments of the sun are called planets. (✓)
- All planets revolve around the sun. (✓)
- The radius of the sun is 500 times bigger than the earth. (x)

(E) MATCH COLUMNS

COLUMNS A	COLUMNS B
All planets revolve Around	the moon
Fragments of Planets	63
Number of moons on Jupiter	eight
Planets of solar System	the sun

Unit-12

THE MOON

EXERCISE

(A) WRITE SHORT ANSWERS OF THE FOLLOWING QUESTIONS:

- Q.1: In how many days the moon completes its round around the earth?

Ans: The moon completes its round around the earth within 29 days.

- Q.2: What is difference between moon and planet?

Ans: There is a little between the moon and the star. stars travel around the sun while the moon orbits around its own star.

- Q.3: Why is life not possible on the moon?

Ans: There is not presence of air and water on the moon hence life is impossible on it.

- Q.4: What is meant by "Ashkale Qamar"?

Ans: Different shapes of the moon are Ashkale Qamar.

(B) FILL IN THE BLANKS WITH RIGHT WORD OR PHRASE.

- Just like the Earth, the Moon is also a PLANET .
- The Moon of the first night is called CRESCENT .
- The moon is almost FIFTY TIMES smaller than the earth.

- There is a little DIFFERENCE between the moon and the star.

- Mars planet has TWO moons.

(C) TICK THE CORRECT OPTION.

- The moon completes its one round around the sun:

- a) within 28 days b) within 29 days ✓
c) within 30 days
2. The moon is smaller than our earth:
a) 10 times b) 30 times c) 50 times ✓
3. The shape of the moon is:
a) round ✓ b) oval shape c) oblong

(D) TICK (✓) THE TRUE AND (X) THE FALSE STATEMENT.

1. Life on the moon is not possible. (✓)
2. Man has not reached on the moon till day. (x)
3. The moon of 14th is called crescent. (x)
4. The moon does not have its own light. (✓)
5. The moon of first night is like crescent. (x)

(E) MATCH COLUMNS

COLUMNS A	COLUMNS B
The moon of 1st night	full moon
The moon of 14th	Neil Armstrong
Different shapes of the moon	Crescent
Astronaut who stepped on the moon	Shapes of the Moon