APPENDIX – III

FORMATIVE TESTS

(ENVIRONMENTAL SCIENCE)

Name: ___________  Class: ___________  Roll No: ___________
School: ____________________  Date: ___________

CHAPTER - 1

Growth and Response to Stimuli in Living Things

Note: four alternative answers have been given under each question below. Tick mark (✓) the most appropriate alternative.

I. The common characteristic between an elephant and a rat is that they:
   a. are of grey colour
   b. are vegetarians
   c. grow and develop
   d. have similar ears
II. Which one of the following features differentiates plants from animals?
   a. growth of the damaged parts
   b. growth of new body parts
   c. ability to move
   d. ability to protect oneself.

III. What happens to cockroaches, when light is suddenly flashed?
   a. they move towards the light
   b. they move away from the light
   c. they do not move
   d. they run in all directions

IV. If you grow a plant in a dark room with only a small hole on the wall
   a. the roots will grow towards the hole.
   b. only flowers will bend towards the hole
   c. the stem will bend away from the hole
   d. the stem will bend towards the hole
CHAPTER – 2
Respiration and Reproduction in Living Things

Note: four alternative answers are given for each question below. Tick mark (√) the most appropriate alternative.

I. Why did the lime water turn milky in the jar containing germinate seeds?
   a. Because it contained air.
   b. Because of the presence of carbon dioxide
   c. Because it contained soaked seeds
   d. Because of the presence of oxygen

II. The air reaches different parts of our body
    a. Through nose and wind pipe
    b. Through lungs
    c. Through blood
    d. All of the above

III. Energy is released when
    a. Oxygen reaches the different parts of our body
    b. The food is burnt
c. The absorbed food is broken down by oxygen

d. Absorbed food reaches different parts of the body

IV. All living things respire in order to

a. Obtain energy

b. Breathe oxygen

c. Breath air

d. To break down food

V. Which of the following animals give birth to offsprings?

a. Horse

b. Snake

c. Tiger

d. Rat

VI. One of the following animals does not lay eggs:

a. Sparrow

b. Ant

c. Cow

d. Lizard
CHAPTER – 3
How Living things Adapt Themselves

Note: Four alternative answers have been provided under each question. Tick mark (✓) the most appropriate answer.

I. Which one among the following is the hiding place for a tiger?
   a. Tall trees
   b. Deep burrows
   c. Tall grasses
   d. Sand

II. Which one of the following uses gills as breathing organ?
   a. Duck
   b. Water skater
   c. Fish
   d. Frog
III. The frog is able to live on land and in water because it has:
   a. Gills
   b. Scales on its body
   c. Webbed feet
   d. Frog

IV. The Praying Mantis is able to escape its enemies due to its:
   a. Peculiar shape
   b. Long legs
   c. Sticky tongue
   d. Deep brown colour

V. If the tail fin of a fish is tied with rubber band it will not be able to:
   a. Digest food
   b. Keep distance
   c. Breathe
   d. Swim
CHAPTER – 4
From Seeds to Seedlings

Note: four alternative answers are given for each question below. Tick mark (√) them most appropriate answer.

I. During the summer, little green vegetation is found around because:
   a. Enough water is not available
   b. The atmosphere is dry and hot.
   c. The sun dries it up
   d. All of the above

II. The seedlings in the flower pot kept in the cupboard shows:
   a. No growth at all
   b. Stunted growth
   c. Unhealthy growth
   d. Growth similar to the flower pot kept in the open
III. Bean seeds sown at the same time vary in growth because:
   a. The seeds are different
   b. The conditions are not the same
   c. Of the individual difference among seeds
   d. Both the conditions and seeds differ

IV. Why do farmers weed out the unhealthy seedlings?
   Because:
   a. The yield from such plants would be poor
   b. The seeds differ
   c. It would help the rest of the crop to grow
   d. It would make nutrients available in the soil to other healthy plants
CHAPTER – 5
The Bone – Cage: Our Body and its Movements

Note: four alternative answers are given for each question below. Tick mark (√) them most appropriate answer

I. Which of the following is an example of an immovable joints
   a. Bones in the wrist
   b. Bones in the face
   c. Bones in the upper part of the skull
   d. Bones in the shoulder

II. Which of the following movements cannot be done by the bones in the neck?
   a. Up and Down
   b. Right to Left
   c. Left to right
   d. Front to Back
III. We are able to bend forward and backward because the backbone consists of
   a. A large number of bones with immovable joints
   b. One large bone with no joints
   c. A large number of bones with movable joints
   d. A large number of bones with spaces between them

IV. The food passes from food pipe to stomach due to
   a. Contraction of muscles controlled by will
   b. Relaxation of muscles controlled by will
   c. Contraction and relaxation of muscles not under our control
   d. Contraction and relaxation of muscles controlled by us.

V. A person is able to sit squatting (sitting on heels) on the ground because of the presence of
   a. Ball and socket joints at knees
   b. Ball and socket joints at hips
   c. Sliding joints at knees
   d. Immovable joints at hips
II. Ricket can be prevented in a child by giving him:
   a. Plenty of fruits
   b. Exposure to sunlight and fresh air
   c. Food rich in Vitamin A
   d. Food rich in Vitamin C

III. To build a strong and healthy body, you should eat-
a. Leafy vegetables  
b. Food rich in vitamins and minerals  
c. Food rich in proteins  
d. Fatty food  
e. All of these

IV. The daily diet of a two year old child consists of only rice  
a. Thinner and shorter than the other children of his age  
b. As well as the children of his age  
c. Stringer than the other children of his age  
d. All of these

V. Night blindness can be prevented if children daily eat  
a. Rice and dal  
b. Chapatti and milk  
c. Carrot, palak, muli  
d. Eggs and meat

VI. If you suffer from spongy, bleeding gums, your diet in-  
a. Papaya and yellow pumpkin  
b. Meat and roti  
c. Lemon, orange, amla  
d. Sweet potatoes and arvi
CHAPTER – 7

Communicable Diseases

Note: four alternative answers are given for each question below. Tick mark (√) them most appropriate answer.

I. Typhoid spread through
   a. Mosquitoes
   b. Flies
   c. Dog bite
   d. Foul air

II. Defecating near the source of drinking water helps to spread
   a. Tuberculosis
   b. Cholera
   c. Measles
   d. Polio
III. Eating food exposed to flies spreads
   a. Whooping cough
   b. Diarrhea
   c. Malaria
   d. Tetanus

IV. At present there is no vaccine for preventing
   a. Diphtheria
   b. Malaria
   c. Polio
   d. Tuberculosis

V. If there is a case of cholera in your family, you should go to:
   a. A quack
   b. A health worker
   c. A social worker
   d. A priest
CHAPTER – 8

Community Sanitation

Note: four alternative answers are given for each question below. Tick mark (✓) the most appropriate answer.

I. The land filled up by a land-fill can be used for:
   a. Agriculture
   b. Building
   c. Wells
   d. All of these

II. Which of the following disease will spread if the waste materials contaminate the water source?
   a. Anemia
   b. Cholera
   c. Night Blindness
d. Malaria

III. What are the important steps for disposing off the waste?
   a. Quick collection
   b. Effective transportation
   c. Proper disposal
   d. All of the above

IV. Which waste materials can not be decomposed and converted into manure or biogas?
   a. Cow dung
   b. Plastic and polythene bags
   c. Dead plants and animals
   d. Both b & c
CHAPTER - 9

Soil Conservation

Note: four alternative answers are given for each question below. Tick mark (✓) them most appropriate answer.

I. Soil erosion can be controlled by:
   a. Terracing only.
   b. Constructing bunds only
   c. Planting trees only
   d. All the above factors

II. The fertility of the soil can be increased by:
   a. Crop rotation only
   b. Ploughing green crops into the land only
   c. Adding fertilizers only
   d. All the above steps
III. Cutting of trees causes:
   a. Aforestation
   b. Soil erosion
   c. Malaria
   d. Heavy rains

IV. Productivity of the soil can be increased by:
   a. Using fertilizers
   b. Modern agricultural practices
   c. Using manures
   d. All of these
CHAPTER – 10

Air: Its Uses and Its Pollution

Note: four alternative answers are given for each question. Tick mark (✓) them most appropriate answer.

I. Air consists of
   a. Oxygen only
   b. Nitrogen only
   c. Carbon dioxide only
   d. All the above gases

II. Pollution of air is due to
   a. Carbon dioxide given out by human beings and
   b. Smoke given out by automobiles, factories etc.
   c. Cutting of the green plants
   d. Growing less trees and plants
CHAPTER – 11
Force, Work and Energy

Note: four alternative answers are given for each question below. Tick mark (✓) them most appropriate answer.

I. The force of gravity alone is acting when
   a. A train is running on the track
   b. A horse is pulling the cart
   c. A child pushes the cart
   d. A child pushes another child on the floor

II. The ice-skating is more difficult than the roller skating because
   a. The surface has low friction
   b. There is greater friction
   c. There is no friction at all
   d. None of these

III. Hydroelectric power stations should be preferred to the thermal power stations because
a. They produce no pollution
b. They produce more energy than the thermal power stations
c. They help to save precious natural resources
d. All of these

IV. We can change the directions of a moving object by
   a. Reducing friction
   b. Increasing friction
   c. Applying force
   d. Changing shape

V. When you release a stone from a catapult, it falls to the ground due to the force exerted by
   a. The muscles
   b. The stone
   c. The earth
   d. The catapult

VI. Wheel of a cart gets heated after a run because of
   a. Increase in speed
   b. Increase in pressure
   c. Increase in friction between road and wheel
   d. None of the above
CHAPTER – 12
Simple Machines

Note: four alternative answers are given for each question below.
Tick mark (✓) them most appropriate answer.

I. A physical balance (taraju) is an example of
   a. A lever
   b. An inclined plane
   c. A wedge
   d. A support for a layer

II. A machine makes work
   a. Convenient
   b. Easier
   c. Faster
   d. All of the above

III. It is easier to move a heavy load from one place to another
   a. By dividing it into small parts
   b. By lifting directly
c. By dividing and lifting alternatively

d. None of these

IV. The Screw Jack makes easier because work is

a. Divided into small parts

b. Done with machine

c. Done with the help of handle

d. Spread over a large distance
CHAPTER – 13

Shadows and Eclipses

Note: four alternative answers are given for each question below.
Tick mark (✓) them most appropriate answer.

I. Shadow formation depends only upon
   a. The size of the object
   b. The size of the source of light
   c. The distance between the object and the source of light
   d. On all the above

II. The cause of the solar and lunar eclipses is:
    a. The shadow formation between the sun, the moon, and the earth
    b. The supernatural force between the sun, the moon, and the earth
    c. The light of the sun falling on the earth
    d. Not fully understood
Note: four alternative answers are given for each question. Tick mark (√) the most appropriate answer.

I. Long ago, man lived in harmony with Mother Nature because
   a. He arrived later on the earth
   b. Nature was superior to him
   c. Other animals were inferior to him
   d. He was more or less like the other animals:

II. Man started plundering nature because
    a. He was the dominant master
    b. He had a superior brain
    c. His needs increased
    d. He grew in number
III. Harmony between man and nature has been disrupted because
   a. Of inappropriate use of scientific knowledge
   b. Indiscriminate exploitation of natural resources
   c. Of the greed of man
   d. All of these

IV. Project Tiger was started because
   a. The tiger became extinct
   b. The tiger was likely to become extinct
   c. We wanted to breed white tigers
   d. We wanted to protect forests

V. India is not able to control its population because
   a. Health and medical care has helped control disease
   b. At every 1.5 seconds a new baby is born
   c. No serious efforts have been made to check it
   d. Indian people are strong and sturdy

VI. A large number of cranes in zoos died after the cause of the death was reported to be
   a. The spread of an epidemic
   b. Fish were polluted with insecticides
   c. They were not given full meal
   d. The contaminated water