

Half Yearly Examination - 2018-19

SCIENCE

Class : IV

Time : 2 Hrs. + 15 min.

Full Marks : 80

QI. Fill in the blanks: (10)

- 1) _____ is present on the underside of leaf.
- 2) Frictional force opposes _____
- 3) The theory of _____ was first observed by Sir Isaac Newton.
- 4) _____ give rise to new plants.
- 5) _____ have a hard woody stem.
- 6) _____ produces heat.
- 7) Like poles of magnets _____ each other.
- 8) Pulses are seeds rich in _____
- 9) Applying oil between two surfaces _____ friction.
- 10) _____ force pulls down objects that are thrown upwards.

QII Name the following : (10)

- 1) A shape that is narrow at the ends and broad in the centre –
- 2) Force exerted by muscles –
- 3) Nutrients needed by plants and animals to work properly –
- 4) Something that can be eaten –
- 5) Liquids such as oil applied between surfaces to reduce friction –

- 6) A green coloured pigment that gives green colour to the plant –
- 7) A force that causes objects to move away from each other –
- 8) Strong and woody stem –
- 9) Leaves absorb this gas to prepare food –
- 10) The food prepared by plants is in the form of –

QIII. Define the following terms: (2x3=6)

- 1) Transpiration
- 2) Gravitational force
- 3) Photosynthesis (2x10)

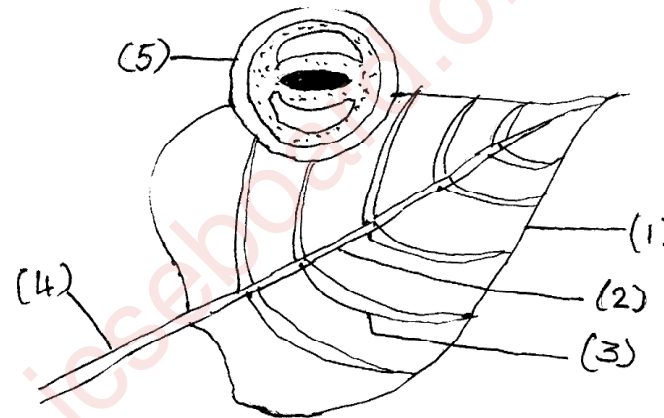
QIV. Give two examples of each:

- 1) Cereals –
- 2) Oilseeds –
- 3) Draught animals –
- 4) Methods of reducing friction –
- 5) Push –

QV. Choose the correct answer : (10)

- 1) This plant has a tap root
a) mango b) wheat c) onion
- 2) This action can increase friction
a) oiling b) polishing c) sprinkling sand
- 3) When two magnets are brought closer, these poles attract each other (10)
a) N-N b) N-S c) S-S

QX. Study the picture and answer the questions : (5)



- 1) Identify the picture (½)
- 2) Label the parts 1 to 5 (2½)
- 3) State two functions of 5. (2)

- 4) Plants require this gas for photosynthesis
 - a) carbondioxide
 - b) oxygen
 - c) water vapour
- 5) These add taste, colour and flavour to food
 - a) spices
 - b) beverages
 - c) nuts
- 6) This is true about gravity on the earth and moon
 - a) gravity on the earth is lower than that at the moon
 - b) gravity on the earth and moon are equal
 - c) gravity on the earth is greater than that at the moon
- 7) This is not an effect of friction
 - a) moving objects wear off
 - b) moving objects stop
 - c) moving objects have weight
- 8) This plant has a weak stem
 - a) rose
 - b) mango
 - c) pumpkin
- 9) Lubricating the moving surface
 - a) removes friction
 - b) reduces friction
 - c) increases friction
- 10) This part of leaf attaches itself to the branch of the plant
 - a) lamina
 - b) stalk
 - c) vein

QVI. State True or False .Correct the false statements and rewrite the corrected ones : (5)

- 1) Streamlined shape helps to increase friction.
- 2) Earth pulls all the objects towards itself.

- 3) Friction can be decreased by making surfaces rough.
- 4) Pulses are seeds rich in starch.
- 5) Gravity on the earth is lower than at the moon.

QVII. Match the following and rewrite: (6)

- | | |
|------------------|--------------------|
| 1. pulses | a) fibres |
| 2. jute | b) force |
| 3. acacia tree | c) medicinal plant |
| 4. mint | d) paper |
| 5. bamboo | e) proteins |
| 6. push and pull | f) gum |

QVIII. Answer the following questions: (2x6=12)

- 1) Why are draught animals domesticated?
- 2) Write two disadvantages of friction.
- 3) Give two differences between frictional and gravitational force.
- 4) What is the role of stomata in photosynthesis and transpiration?
- 5) What happens to the food prepared by plants?
- 6) Why do tyres have grooves on them?

QIX. Think and answer: (6)

- a) Why do astronauts find it difficult to walk on the moon?
- b) Why do we need to replace tyres of vehicles after few years of use?

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