

HALF YEARLY EXAMINATION, 2018-19

SCIENCE

Class - VII

M.M.: 80

Time : 3 hrs.

Date - 27.09.2018 (Thursday)

Name of the student _____ Section _____

General Instructions :

- Read the instructions carefully.
- All questions are compulsory.
- Question paper consists of 2 Sections. **Section A** comprises descriptive type questions and **Section B** comprises multiple choice questions.
- Write the answers in proper sequence and draw diagrams wherever necessary.
- Use options wherever mentioned in the questions.

SECTION-A

- Q.1** The rearing of silkworms for obtaining silk is called silviculture. True / False. (½)
- Q.2** Name the device which is used to measure the temperature of an object. (½)
- Q.3** Which acid is injected into our body by an ant sting that causes pain? (½)
- Q.4** Name the gas which turns lime water milky. (½)
- Q.5** Why do wool yielding animals have a thick coat of hair on their body? (2)
- Q.6** Is the distilled water acidic/basic/neutral? How would you verify it? (2)
- Q.7** When baking soda is mixed with lemon juice, bubbles are formed with the evolution of a gas. What type of change is it? Explain. (2)
- Q.8** (a) In which type of soil water logging is maximum and why? (2)
(b) Continuously water-logged soils are disadvantageous for plant growth. Why? (1)
- Q.9** Draw neat and labelled diagram of- (3)
Soil Profile
OR
Amoeba
- Q.10** Explain why -
(a) Rusting of iron objects is faster in coastal areas than in deserts. (1½)
(b) Ripening of a fruit is a chemical change. (1½)
- Q.11** (a) Define the term "selective breeding". (1)
(b) Why the sheared skin is thoroughly washed in tanks? (2)
- Q.12** Rahul was a student of Class VII. His father purchased a new bicycle for him on his birthday. After few months, he found that the cycle chain and even the handle gets rusted. His father advised him to apply a coating of paint to the cycle and not to keep it in open in future.

Now answer the following question:

- a) Why his cycle gets rusted? (1)
- b) What do you mean by rusting of iron? (1)
- c) What values are shown by Rahul's father? (1)

Q.13 State three differences between acids and bases. (3)

Q.14 Give reason:

- a) An antacid tablet is taken when you suffer from acidity. (1)
- b) Factory waste is neutralised before disposing it into the water bodies. (1)
- c) Sodium bicarbonate and lemon juice are used during indigestion. (1)

Q.15 (a) Why stainless steel pans are often provided with copper bottoms? (1½)

(b) Why do people prefer to wear dark clothes in winter? (1½)

Q.16 (a) Name the largest gland in the human body. (1)

(b) Where is the bile produced. Which component of the food does it help to digest? (2)

Q.17 How would you test the presence of starch in leaves? (3)

OR

Show with the help of a sketch that the plants are the ultimate source of food.

Q.18 a) Which part of the digestive canal is involved in - (3)

- i) absorption of food _____
- ii) chewing of food _____
- iii) killing of bacteria _____
- iv) complete digestion of food _____
- v) formation of faeces _____
- vi) digestion of starch _____

b) Why human beings cannot digest cellulose like the cattle do? (2)

OR

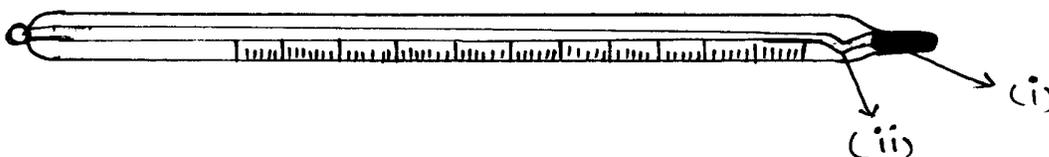
a) Alimentary canal is different from digestive system. Comment. (2)

b) Explain how assimilation is different from absorption. (3)

Q.19 (a) Why do organisms need to take food? (2)

(b) Distinguish between a parasite and a saprotroph. (3 points each) (3)

Q.20 Observe the diagram and answer the following question



a) Identify (i) and (ii) (2)

b) Identify the type of thermometer and give its one use. (2)

c) What is the use of (ii) in the above thermometer? (1)

- Q.21** (a) What do you mean by indicator? Give one example of natural indicator. (2)
 (b) Describe the process of neutralisation with the help of an example. (3)
- Q.22** (a) Classify the changes involved in the following processes as physical or chemical changes-
 i) Photosynthesis ii) Melting of wax (1)
 (b) Complete the reaction - (2)
 i) $\text{MgO} + \text{H}_2\text{O} \rightarrow$ _____ ii) $\text{Ca}(\text{OH})_2 + \text{CO}_2 \rightarrow$ _____ + _____
 (c) What happens when an iron blade of a knife is dipped in a copper sulphate solution?
 What kind of change takes place? (2)
- Q.23** (a) For planting rice (paddy), which type of soil would be most suitable and why? (2)
 (b) Explain how soil pollution and soil erosion could be prevented. (3)

SECTION-B

Choose the correct options:

(1x12=12)

- Q.24** Amarbel is an example of
 a) autotroph b) parasite c) saprotroph d) host
- Q.25** The plant which traps and feeds on insects is
 a) cuscuta b) china rose c) pitcher plant d) rose
- Q.26** Fat is completely digested in the
 a) stomach b) mouth c) small intestine d) large intestine
- Q.27** The simplest form of protein is
 a) fatty acids b) glucose c) glycerol d) amino acids
- Q.28** Which of the following does not yield wool?
 a) Yak b) camel c) goat d) woolly dog
- Q.27** Silkworms secrete fibre made of
 a) fat b) cellulose c) protein d) nylon
- Q.28** Which of the following is an acid-base indicator?
 a) Vinegar b) Lime water c) Turmeric d) Baking soda
- Q.29** A chemical change may involve
 a) change in colour only b) change in temperature only
 c) evolution of gas only d) all of the above
- Q.30** Galvanisation is a process used to prevent the rusting of which of the following?
 a) Iron b) Zinc c) Aluminium d) copper
- Q.31** The water holding capacity is the highest in
 a) sandy soil b) clayey soil c) loamy soil d) mixture of sand and loam
- Q.32** Heat always flow
 a) from a colder object to a hotter object. b) from a hotter object to a colder object.
 c) in both the direction d) none of these
- Q.33** Which of the following is a good conductor of heat?
 a) rubber b) wood c) copper d) plastic

