

HALF YEARLY EXAMINATION, 2017-18

SCIENCE

Time : 3 hrs.

Class – VIII

M.M. : 80

Date – 19.09.2017 (Tuesday)

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 answer in **proper sequence** and **draw diagrams** wherever necessary.
- Use options wherever mentioned in the questions.

SECTION-A

- Q.1** What is a vacuole? (1)
- Q.2** Name one synthetic polymer. (1)
- Q.3** How do protozoans in the bodies of termites and the bacteria in our intestines help? (2)
- Q.4** Why can't we use cooking utensils made of cardboard? (2)
- Q.5** What happens to the zygote formed after the fertilization of ovum? (2)
- Q.6** Why are pulses alternated with crops like wheat or paddy? (3)
- Q.7** What are the different types of 'plastids' and what do they do? (3)
- Q.8** Mention any three ways in which we use fungi. (3)
- Q.9** Sara and her family have planned to go to Goa in the summer vacation. Sara is making a list of items that she will carry during the trip. Her elder sister advised Sara to carry cotton dresses for the trip. She also explained the reason for it. (3)
- a) What properties of cotton cloth makes it suitable for summer wear?
- b) What type of polymer is cotton - Natural or synthetic?
- c) Write any one value shown by Sara's sister.
- Q.10** Mention three uses of metals, giving reason for each use. (3)

OR

- a) What is noble metal? Give two examples.
- b) Write one use of noble metals.
- Q.11** Write three uses of oxygen. (3)
- Q.12** What is biogas and how does it burn? (3)

Q.13 Draw and label the following : (3)
Floating – dome biogas plant.

OR

Fractional distillation of petroleum.

Q.14 a) What is SI unit of force? (3)

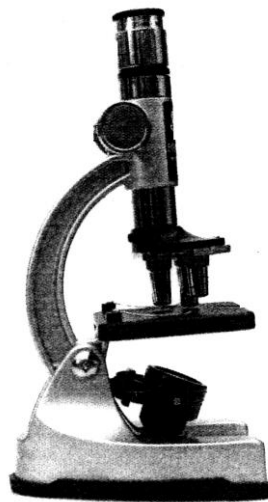
b) What makes the coaster placed over the rim of a glass of water stick even when you invert it?

Q.15 What are endocrine glands? What do they do? (3)

Q.16 a) How is compost prepared? (2+3)

b) Briefly write about the advantages of using chemical fertilizers.

Q.17 Carefully observe the given picture and answer the following questions. (5)



a) Name the given instrument and write its use.

b) What is the lens, that is close to the specimen called?

c) Why do we stain a specimen before viewing them under a microscope?

d) What does it mean by 40 X power of a lens?

Q.18 a) Name a protozoan which can photosynthesis. (5)

b) Name two diseases caused by protozoan.

c) How does paramoecium move and feed?

Q.19 a) Define tensile strength of a material. (5)

b) What are the polymers used in bubble gums, thermocol and synthetic erasers?

Q.20 a) Mention three disadvantages of friction between the parts of a machine. (5)

b) Mention any two types of force which can act from a distance.

OR

How is the pressure in a liquid related to depth? How would you demonstrate this?

Q.21 How is the sex of a foetus determined? Why is it prohibited by law? (5)

SECTION-B

- Q.22** Which of the following is not a Rabi crop? (1)
a) Rice b) Wheat c) Mustard d) Potato
- Q.23** A mutually beneficial association between two organisms is called – (1)
a) pest b) symbiosis c) parasite d) nitrogen fixation
- Q.24** Vascular bundles are found – (1)
a) only in green parts of plants b) only in stem
c) in root, stem and leaves d) only in dicotyledonous stems
- Q.25** Penicillin is obtained from a – (1)
a) protozoan b) bacterium c) mould d) mushroom
- Q.26** The level of glucose in the blood is controlled by the _____ gland. (1)
a) thyroid b) pancreas c) testes d) ovary
- Q.27** Which of the following is hydrophobic ? (1)
a) cotton b) linen c) jute d) polyester
- Q.28** Which of the following gas is used in advertisement signs ? (1)
a) hydrogen b) oxygen c) nitrogen d) neon
- Q.29** Among other things, a good fuel should have a – (1)
a) high calorific value b) low calorific value
c) high temperature d) low temperature
- Q.30** The luminous region in a candle flame contains – (1)
a) completely burnt carbon particles b) completely burnt wax
c) unburnt carbon particles d) water vapour
- Q.31** Kinetic friction is _____ static friction. (1)
a) lesser than b) greater than c) equal to d) incomparable
- Q.32** The relation between the SI unit of force and weight of 1kg mass is – (1)
a) $1 \text{ kg f} = 1\text{N}$ b) $1\text{kgf} = 0.98\text{N}$ c) $1\text{kgf} = 9.8\text{N}$ d) $1\text{N} = 9.8 \text{ kgf}$
- Q.33** A car skids on a wet road because – (1)
a) water increases friction between the road and tyres
b) it is not possible to apply brakes on a wet road
c) the friction between the brake shoes and the wheel is reduced
d) water reduces the friction between the road and the tyres.

