

ST. ARNOLD'S CENTRAL SCHOOL, PUNE
TERM-2 EXAMINATION, 2017-18
SUBJECT: SCIENCE

CLASS: VIII

M.M: 80

General Instructions:

- (i) All questions are compulsory.
 - (ii) There is an internal choice in three questions of three marks each and one question of five marks.
 - (iii) Question numbers 1 to 7 are one mark question.
 - (iv) Question number 8 to 15 are two mark question.
 - (v) Question number 16 to 24 are three mark question.
 - (vi) Question number 25 to 30 are 5 mark question.
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- 1) Write two diseases caused by bacteria. (1)
- 2) Why do charged bodies attract or repel? (1)
- 3) In which female reproductive organ does the embryo get embedded? (1)
- 4) Define adolescence. (1)
- 5) Classify the following liquids into conductors and insulators:
lemon juice, vinegar, distilled water, tap water. (1)
- 6) Define frequency. (1)
- 7) The angle between incident ray and reflected ray is 60° . What is the value of angle of incidence? (1)
- 8) How are viruses different from other microorganisms? (2)
- 9) Give the right word for :
 - a) A hormone that helps in reproduction.
 - b) A gland in the neck, which when swollen causes goiter.
 - c) A hormone which helps to balance the sugar in the body.
 - d) An element without which thyroxine hormone is not formed. (2)
- 10) What are the different ways in which water gets contaminated? (2)
- 11) What kind of lens is there in our eyes? Where does it form the image of an object? (2)
- 12) We cannot hear the sound of the exploding meteors in the sky, though we can see them. Why? (2)

- 13) Can we make coal and petroleum in laboratory from dead organisms? Explain. (2)
- 14) Explain how CO_2 is able to control fires. (2)
- 15) What is the importance of reproduction in organisms. (2)
- 16) Why do we use paper or kerosene oil to start fire in wood or coal? (3)
- 17) Explain why it is safer to use a wireless telephone instead of a landline telephone during lightning. (3)

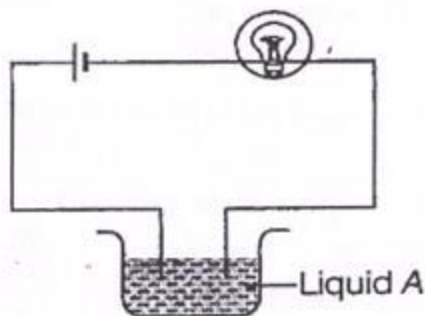
OR

What precautions would you take if lightning occurs while you are outside the house? (3)

- 18) Paheli set up an experiment using liquid A in the beaker as shown in the figure.

She observed that the bulb glows. Then, she replaced the liquid A by another liquid B.

This time the bulb did not glow. Boojho suggested replacing the bulb by an LED. They observed that the LED glows. Explain.



OR

You are provided with a magnetic compass, an empty matchbox, a battery of two cells and connecting wires. Using these objects, how will you make a tester for testing an electric circuit? Draw the necessary circuit diagram and explain. (3)

- 19) The term 'metamorphosis' is not used while describing human development.

Why? (3)

20) Explain circumstances leading to acid rain. How does acid rain affect us?

OR

Describe the 'Green House Effect' in your own words. As a responsible citizen what will be your contributions to reduce the effect. (3)

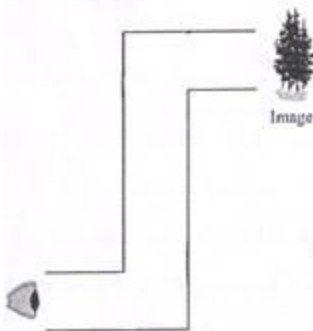
21) What are cones and rods? What are their functions? (3)

22) Name the male and female sex hormones. Give one similarity and one difference in the secondary sex characters developed in boys and girls. (3)

23) Differentiate between internal fertilization and external fertilization. (3)

24) What is the difference between noise and music? Can music become noise sometimes? (3)

25) Boojho planned an activity to observe an image through pipes as shown in figure, so that he could see objects which he could not directly see.



- How many mirrors should he use to see the objects?
- Draw the diagram and indicate the positions of the mirrors in the figure.
- What must be the angle with respect to the incident light at which he should place the mirrors?
- Indicate the direction of rays in the figure.
- If any of the mirrors is removed, will he be able to see the objects?

OR

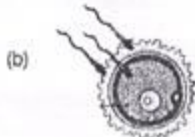
Describe the construction of a kaleidoscope. (5)

26) Give an activity to show the process of electroplating. (5)

27) Define asexual reproduction. Describe two methods of asexual reproduction in animals. (5)

OR

Observe the following figures.



(i) Identify the stages (a) to (d) in figure during development of human baby.

(ii) Arrange the stages in correct sequence of development.

(iii) Explain the development that takes place in any one stage.

28) Give five examples to show that friction is increased deliberately. (5)

29) With the help of a neat labeled diagram explain the parts of a Human eye. (5)

30) Describe with the help of a diagram an instrument which can be used to detect a charged body. (5)