

AMRITA VIDYALAYAM

ANNUAL EXAMINATION 2019 - 20

Class : VIII

Marks : 80

Time : 3 hrs

SCIENCE

GENERAL INSTRUCTIONS :

- 1. The question paper comprises three sections. A, B and C. You are to attempt all sections.*
- 2. All questions are compulsory.*
- 3. Internal choice is given in each section.*
- 4. Questions in Section A are 1 mark questions comprising MCQ, VSA type questions. They are to be answered in one word or one sentence. Questions 13 and 14 have four parts of 1 mark each.*
- 5. Questions in Section B are 3 marks short answer type questions. These are to be answered in about 50-60 words each.*
- 6. Questions in Section C are 5 marks long answer question. These are to be answered in 80-90 words each.*

SECTION - A

1. Which of the following characteristics of sound depends on the amplitude of vibrations?
(speed, pitch, loudness, quality)
2. Which zone represents the partial combustion in candle flame?
(outer zone, middle zone, inner zone, lower zone)
3. Two plane mirrors kept at 60° forms _____ images of an object kept between them.
(7, 5, 6, 1)
4. Which of the following is not caused by deforestation?
(desertification, global warming, reduction in ground water, storm)
5. The splitting of white light into its constituent colours is called _____.
(refraction, deviation, dispersion, displacement)
6. Which one of these controls the amount of light entering the eyes?
(pupil, iris, cornea, ciliary muscles)
7. A body can be charged by _____.
(rubbing it against another, touching it to a charged body, bringing a charged body near it, all of the above methods)

OR

Like charges _____.

(always repel each other, always attract each other, can repel or attract each other depending on conditions, none of the above)

8. Metals react with acid to produce _____ gas.
9. Name the control unit of a cell.
10. Increase in the amount of CO_2 in air is responsible for _____.

OR

Define calorific value.

11. Name the organism that reproduces by binary fission.

OR

Which organ is responsible for the production of male gamete in the human reproductive system?

12. Name the mission launched by the Government in 2016 to save Ganga.
13. We can deposit any desired metal on another material by means of electricity.
 - a) Name the process.
 - b) The most liquids that conduct electricity are the solutions of _____, _____ and _____.
 - c) Which effect is caused when electric current is passed through a solution?
 - d) _____ is metallic rods through which electricity enters to an electrolyte.
14. Match the agricultural implements given with their use.

a) sickle	ploughing
b) hoe	sowing
c) seed drill	irrigation
d) sprinkler	harvesting

SECTION - B

15. Differentiate between regular and diffused reflection. Draw diagram to show the two types of reflection.

OR

16. a) What is reflection of light?
b) If the angle between the mirror and the incident ray is 30° , what is the angle of the reflection?
Gopal wants to practice crop rotation in his field. Suggest a Rabi crop and a Kharif crop which will replenish his field with nitrogen. Which type of crops replenish nitrogen and why?

OR

Paddy is a major cereal crop in our country.

17. a) In which season paddy is cultivated?
b) What measures must be taken to prevent spoilage and insect attack of harvested grains?
Compare the properties of metals and non-metals with respect to malleability, ductility and conductivity.

OR

Explain with example.

- a) Reaction of metal with air.
- b) Displacement reaction.
18. List four precautions you will take to save yourself from a lightning strike during a thunder storm.
19. Describe an experiment to show that sound can travel through liquids.
20. Is the size of the cells of an organism related to the size of its body? Explain with examples.
21. What are the different harmful products formed by burning of fuel?
22. Why do you think it is necessary for frogs and fishes to lay so many eggs?
23. What conditions are necessary for combustion?
24. What is the 'frequency' of a vibrating object? How is it related to shrillness of a sound?

SECTION - C

25. a) What are the causes of deforestation?
b) How does deforestation leads to global warming and droughts?

OR

Define the following terms.

- a) Endemic species b) Endangered species c) Extinct species

