

**JB Academy, Ayodhya**  
**Annual Examination**  
**Class – VIII, Subject: Science**

**Time : 3 Hrs.**

**M.M:80**

**Section - A(one mark each question)**

1. Which of the following product of coal is used in the manufacture of steel?  
a) Coke                      b) Coal tar                      c) Coal gas                      d) None of these
2. While performing experiment in laboratory, the teacher advised students not to wear synthetic clothes. What could be the most appropriate reason behind her advice?  
a) These clothes stick to the body.                      c) These clothes melt on heating.  
b) They catch fire easily.                      d) All of these.
3. Adolescence can be defined as  
a) becoming old  
b) the period of life when body of an individual stops to change.  
c) the period of life when the body of an individual undergoes changes leading to reproductive maturity.  
d) ability to reproduce.
4. A synthetic fibre made of cellulose as raw material is  
a) Nylon                      b) Rayon                      c) Acrylic                      d) Polymer
5. ' Project Tiger' is involved with  
a) Rearing of tigers                      c) Survival and maintenance of tigers.  
b) Hunting of tigers                      d) All of these
6. Yeast is used in the production of  
a) Sugar                      b) Nitrogen                      c) Protein                      d) Alcohol.
7. The S I unit of loudness is  
a) Newton                      b) Pascal                      c) Decibel                      d) Hertz
8. Anions are attracted towards the  
a) Cathode                      b) Anode                      c) Electrode                      d) Electrolyte
9. The amplitude of sound waves decides it's  
a) Speed                      b) Pitch                      c) Loudness                      d) Frequency
10. Ozone is present in  
a) Troposphere                      b) Stratosphere                      c) Ionosphere                      d) Exosphere
11. Name the microorganism that causes malaria.
12. Name the main component of natural gas.
13. Name the fibre that burns with smell of burning paper.
14. What is 'Red Data Book'?
15. How much time does Earth take to spin about its own axis ?

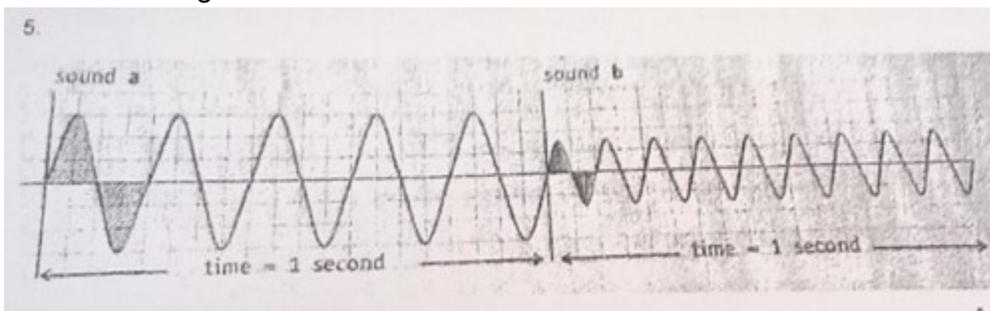
16. Name the male sex hormone.
17. Give example of one non contact force.
18. Which is the instrument used to measure liquid pressure?
19. Which is the hottest zone of candle flame?
20. Define a light year.

**Section - B (Each question carries 2 marks)**

21. Rohit took a rope with him while going for rock climbing. Can you tell which rope will he select? Give 3 reasons.
22. Define calorific value of a fuel. Why is hydrogen not used as domestic fuel though it has a high calorific value?
23. Give the full form of the following  
WCU, TERI, WWF, IUCN.
24. a) Write one important characteristics of virus.  
b) Write any two diseases caused by virus.
25. Write any two factors on which vibration of a string instrument depends and explain.

**Section - C (Each question carries 3 marks)**

26. Write function of following components of cell.
  - a) Cell membrane
  - b) Nucleus
  - c) Mitochondria
27. A rectangular iron block of mass 20 Kg is placed on the top of a table. The dimensions of the block is 20cm x 20 cm. Find the pressure exerted by the block on the top of the table.
28. How is the sex of a child determined? Explain with the help of flow chart.
29. Write three methods of forest conservation.
30. Look at this diagram



Now answer these questions based on above diagram.

- a) Which sound has greater frequency and why?
- b) Which sound has greater amplitude and why?
- c) Which sound is louder and why?

**Section – D**

(5x5)

**31.** Differentiate between the following (any 5)

- i. Prokaryotic and Eukaryotic organisms
- ii. Bakelite and Polythene
- iii. Zoo and National Parks
- iv. Rapid and Spontaneous Combustion
- v. Noise and Music
- vi. Algae and Fungi

**32.** Draw a diagram of candle flame by labelling the zones and explain each zone.

**33.** Give reasons (any 5)

- i. It is difficult to burn green leaves.
- ii. During thunderstorm, flash and thunder are produced simultaneously but thunder is heard few seconds after flash is seen.
- iii. Walls of dam are thickened near the base.
- iv. Infants are vaccinated just after birth.
- v. Common salt is added to raw mangoes while making pickles.
- vi. Objects to be electroplated are always taken as cathode.

**34.** Mayank took a 5 Rs coin and made an attempt to electroplate it with copper metal.

a) What should we use as an electrolyte?

b) What should he connect to the positive and negative terminal of the battery?

c) What did he observe after passing current for 15- 20 minutes?

d) Mention two uses of electroplating.

e) Draw the diagram to show electroplating.

**35.** Some fuels we use at home are describing themselves. Let's see if you can identify them.

a) I am a solid fuel, made from the fossils of plants and animals that died millions of years ago. Who am I?

b) I am a liquid fuel, very precious to mankind. I am widely used to make products that make vehicles run. Who am I?

c) I am packed in cylinders and sent by the refineries. I help many mothers in cooking. Who am I?

d) I am a gas produced from animals and plant wastes. I can be used very effectively in cooking. Who am I?

e) I am a dried stem of a plant and used for bonfire at night. Who am I?

**Section - E (Case study based questions)**

36. Read the passage.

(5)

During the last century, hundreds of species have been extinct, almost all as a result of human activities that have been taken place over the course of time. A plant or animal species that is endangered is a sign that the environment is degrading, which can threaten the existence of humans as well.

The impacts of human interference on wildlife are causing concern for the safety and conservation of the species. A number of factors contribute to this degradation, including deforestation, pollution, overfishing, climate change etc.

We can conserve the vast range of flora and fauna by prohibiting hunting, poaching, deforestation etc. Spreading awareness is also an important step to control the extinction of plants and animals.

Answer the following questions based on the above passage.

1. Clearing of forest lands for commercial use is \_\_\_\_\_.
2. What is poaching?
  - a) Grazing cattle
  - b) Exploitation of animals
  - c) Illegal killing or capturing of wild animals.
  - d) None of these
3. The term used to describe the plants and animals found in a particular area are known as \_\_\_\_\_ and \_\_\_\_\_.
4. What is wildlife sanctuary?
5. A place in environment where an organism lives is known as it's \_\_\_\_\_.