



**DAV BORL PUBLIC SCHOOL, BINA**  
**CLASS: VIII SUBJECT: SCIENCE**  
**PRACTICE PAPER FOR SA-II SESSION (2015 – 16)**

Time Allowed : 3 hours

Maximum Marks : 90

**General Instructions :**

1. The question paper comprises of two Sections, A and B. You are to attempt both the sections.
2. All questions are compulsory.
3. All questions of Section-A and all questions of Section-B are to be attempted separately.
4. Question numbers 1 to 10 in Section-A and Question numbers 28 to 32 in Section-B carry one mark each. These are to be answered in one word or in one sentence
5. Question numbers 11 to 16 in Sections-A and Question numbers **33 and 35** in Sections-B are two marks questions. These are to be answered in about 30 words each.
6. Question numbers 17 to 23 in Sections-A and Question numbers **36 to 37** in Sections-B are three marks questions. These are to be answered in about 50 words each.
7. Question numbers 24 and 27 in Sections-A and Question numbers **38 to 39** in Sections-B are five marks questions. These are to be answered in about 70 words each.

Section A

- |   |   |   |
|---|---|---|
| 1 | The maximum displacement of a vibrating body, on either side is known as its:<br>(a) frequency (b) loudness(c) amplitude (d) pitch  | 1 |
| 2 | Rainbow is a natural effect of<br>a. dispersion of light b. refraction of light<br>c. reflection of light d. absorption of light  | 1 |
| 3 | Which of the following is not a step that helps in to conserving water?<br>a) Repairing water leakage from broken pipes<br>b) Half flushing in toilets<br>c) Taking long showers<br>d) Reusing. | 1 |
| 4 | The process of removing impurities from the ore is called<br>a) Concentration of ore<br>b) Metallurgy<br>c) Refining<br>d) Reduction  | 1 |
| 5 | Name the property of the human ear due to which the effect of a sound remains on the human ear for about 0.1 second.  | 1 |
| 6 | Give the name of icy celestial body that appear again and again after regular interval  | 1 |

- 7 What is the time taken by geostationary stationary satellites to complete one revolution of earth? 1
- 8 Which property of water is responsible for the contamination of it to a large extent? 1
- 9 Write the name of the term in which purity of gold is expressed. 1
- 10 What happens when a non metal oxide reacts with water? 1
- 11 Define the terms(a) pole (b)optical centre 2
- 12 Why are some colourful bands seen on the planet Jupiter? 2
- 13 Name any two non-optical aids that are useful for visually challenged persons. 2
- 14 a) Define an ore. 2  
b) Name one important ore of each Iron and Aluminium.
- 15 Write any two uses of non metals. 2
- Or
- What is an alloy? State the composition and one use of a) brass b) stainless steel.
- 16 How molecular arrangement of thermoplastic is is different from thermosetting plastic? 2
- 17 (a) Write two application of geostationary satellites 3  
(b) What is a meteor?
- 18 I)What is the effect on the 3  
a)loudness of a sound if the amplitude of a vibrating body is doubled?  
b)pitch of a sound when the frequency of the vibrating body is doubled  
II)the frequency of a sound is 1200 Hz . is it audible .state the reason in support of your answer
- 19 Give reasons: 3  
a) Voice of men and women are different.  
b) Trees planted along the roads reduce noise.  
c) A child with a hearing loss may also have defective speech.
- 20 How is sound produced and how is it transmitted and heard by us? 3
- 21 a) A pencil appears bent when it is partially dipped in water. Give reasons. 3  
b) Define dispersion.
- 22 Sugandha's sister is in habit of keeping the tap open while brushing her teeth. She loves 3  
to bathe under shower. Her neighbour uses hosepipe attached to drinking water supply pipe for washing his scooter & car. According to Sugandha their way of handling the most precious source water is absolutely wrong.  
1. Do you agree with Sugandha or not?  
2. What changes in the above situation can be done to conserve water.  
3. State the value shown by Sugandha.
- 23 Name the fibre which : 3  
a) Imitates like wool and silk.

- b) is used for making conveyer belts.  
 c) used to make electrical switches.
- 24 (a) What do you understand by the term 'power of accomodation' of the human eye? 5  
 How does it help us?  
 (b) How is cataract treated?  
 (c) List the parts of the human eye that control the amount of light entering into it.  
 Explain how they perform this function.  
 (d) Write the function of retina in human eye.

**OR**

- What is myopia? List two causes for the development of this defect. How can this defect be corrected using a lens? Draw ray diagrams to show the image formation in case of (i) defective eye and (ii) corrected eye.
- 25 (a) State the basic cause of refraction of light. 5  
 (b) Is the refractive index of a medium an indicator of its optical density? How?  
 (c) A coin, not visible before in a cup, (when seen from some distance) becomes visible, after some water is poured into the cup. Give reason for this observation.  
 (d) During dispersion of white light through a glass prism, it is observed that red colour bends minimum towards its base. Why?

**OR**

- (a) State three differences between real image and virtual image  
 (b) Mention any two uses of lenses in our day to day life.  
 (c) Under what condition, does a convex lens form a virtual image?
- 26 a) What type of reaction occurs when zinc reacts with a solution of lead nitrate? 1  
 b) Write the chemical reaction involved in the above reaction. +  
 c) What conclusion will you draw about the chemical nature of zinc and lead? 1  
 d) Gold and silver are called noble metals. Why? +

Or

- Why alloys are considered to be better than pure metals? Write the composition and one use of each alloy:duralumin,alnoco,gun metal. +  
 2
- 27 a)"Plastics are threats to environment" Comment. 5  
 b) Write two properties of synthetic fibres.

**SECTION-B**

- 28 List down names of any two crops that man has been growing since early ages. 1  
 29 What is the method of scattering seeds manually in the field known as? 1  
 30 Define the term "Fertilization". 1  
 31 What is meant by Menarche? 1  
 32 Write down names of any two invertebrates that shows parthenogenesis. 1  
 33 Differentiate between manure and fertilizers giving four points. 2

- 34 Define the term "Metamorphosis" .List down any two features of tadpole which is missing in an adult frog.. 2
- 35 Mention any two secondary sexual characteristics of a male. Name the chemical responsible for it. 2
- 36 Draw a well labeled diagram of a human male gamete. 3
- 37 List down names of any three major endocrine glands that lie above your heart. Write down names of any one hormone given out by each one of them with their respective function. 3
- 38 Describe the significance of tilling your farm before sowing of the seed. Describe any five points. 5
- 39 Draw and describe any three modes of asexual reproduction in unicellular organisms. 5

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