



## D.A.V. PUBLIC SCHOOL, NEW PANVEL

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### SAMPLE PAPER FOR II PREPARATORY EXAMINATION

2015-2016

STD:- VIII

**Sub: - Science**

**Date:-**

**Time:- 3 Hours**

**Marks:- 90**

#### General Instructions :

1. The question paper consists of 2 sections - Section A (having 27 questions) and Section B (having 12 questions). You are to attempt both the sections.
2. All questions are compulsory.
3. There is no overall choice. However, internal choices have been provided in all questions of 5 marks category .
4. All questions of Section A and all questions of Section B are to be attempted separately.
5. Questions 1 to 4 in Section A and Questions 28 and 29 in Section B are multiple choice type questions and carry one mark each.
6. Questions 5 to 10 in Section A and 30 to 32 in Section B are very short answer type questions and carry one mark each.
7. Questions 11 to 16 in Section A and Questions 33 to 35 in Section B are short answer type questions and carry 2 marks each.
8. Questions 17 to 23 in Section A and Questions 36 and 37 in Section B are also short answer type questions and carry 3 marks each.
9. Questions 24 to 27 in Section A and Questions 38 and 39 in Section B are long answer type questions and carry 5 marks each

#### SECTION- A

1. The light ray which falls perpendicular on a glass surface
  - (i) undergoes refraction and bends towards normal
  - (ii) undergoes refraction and bends away from normal
  - (iii) reflects back
  - (iv) does not undergo any refraction or reflection
2. One among them is not a part of middle ear.
 

(i) hammer	(ii) tympanic membrane
(iii) Anvil	(iv) none of the above
3. Synthetic fibre which resembles wool is
 

(i) acrylic	(ii) terylene	(iii) rayon	(iv) nylon
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4. The method which helps to get rid of pathogens in water is
 

(i) filtration	(ii) adding alum
(iii) chlorination	(iv) sedimentation
5. Name two nonmetals used in making fertilizers.
6. What do you mean by least distance of distant vision of human eye?
7. When do you say a person is suffering from Hypermetropia?
8. Give two advantages of synthetic fibres.
9. Name two main stars of ORION.

10. Write one physical and one chemical method of purification of water.
11. Justify and explain the reason for the formation of a rainbow.
12. Identify the exceptional properties shown by the following elements
  - (i) Graphite
  - (ii) iodine
13. What defects in structure of eye causes myopia? How can it be corrected?
14. Why can't you hear echo in your classrooms?
15. How does domestic sewage released into rivers affect aquatic life?
16.
  - (i) State two parameters to ensure whether the water is potable or not.
  - (ii) Name the two types of filters used at home.
17. Give three points of difference between a convex and a concave lens.
18.
  - (i)  $\text{Mg} + \text{CuSO}_4 \rightarrow \text{MgSO}_4 + \text{Cu}$   
 $\text{Zn} + \text{CaSO}_4 \rightarrow \text{no reaction}$   
 Justify the reason for the two reactions.
  - (ii) Name two noble metals.
19.
  - (i) In old age the vision of a person becomes hazy or even opaque. What could be the reason for this? Suggest a suitable remedy.
  - (ii) What do you mean by power of accommodation?
20. In a colony in Mumbai it was found that 25% of the people had hearing problems. On investigation it was concluded that these people were frequently exposed to sound of loudspeakers during festivals and celebrations.
  - (i) What other health issues are related to this situation?
  - (ii) What remedies would you suggest to deal with the problem?
21.
  - (i) Give two uses of the first truly artificial fibre.
  - (ii) What is PET?
22.
  - (i) What are asteroids?
  - (ii) Why do comets develop a tail?
  - (iii) What is the probable reason for the colourful bands of jupiter.
23.
  - (i) Geostationary satellites have revolutionized communication. Comment.
  - (ii) All meteors reaching the earth's atmosphere do not reach the surface of the earth. Why?
  - (iii) Why some stars appear red in colour while some appear blue?
24.
  - (i) With a neat labeled diagram trace the path of a light ray passing through a glass slab.
  - (ii) Define refractive index of a given medium. How is it related to optical density?

**OR**

- (i) Where would you keep an object in case of a convex lens to get a real enlarged image? Depict by ray diagram.
  - (ii) A pond appears shallower than it actually is. Comment.
25.
    - (i) Which among the following substances would react with water? Explain with an activity  
 N, Mg, Cu, P
    - (ii) Why metals are called malleable and ductile?

**OR**

- (i) Give reasons for the following:
  - a) Sodium is stored in kerosene.
  - b) Gold and Silver are used for high precision electrical contacts in Computers
  - c) Steel utensils are preferred over copper ones.
- (ii) What are metalloids? Give two examples.

26. (i) How does the voice box in humans help in production of sound?  
 (ii) Explain the mechanism of sound production in  
 a) Birds                      b) insects  
 (iii) How is amplitude related to loudness of sound?

**OR**

- (i) Write an activity to prove that sound travels faster in liquids than gases  
 (ii) Define - i) frequency    ii) time period  
 27. (i) Today plastics have dominated the world around us. At the same time we are paying a heavy prize for it in form of its ill effects. Justify giving two reasons.  
 (ii) How are thermoplastics different from thermosetting plastics?  
 (iii) What is the special feature of rayon fibre?

**OR**

- (i) How are bakelite and melamine different from nylon or acrylic fibres?  
 (ii) Why some substances are called biodegradable and some non biodegradable?  
 (iii) List down two uses of terylene fibre.

### SECTION – B

28. Hormone which regulates the metabolic rate of body functions is  
 (i) Insulin      (ii) estrogen      (iii) thyroxin      (iv) adrenalin
29. Select the true statement in case of linseed and mustard  
 (i) They are rabi crops grown between June to September  
 (ii) They are rabi crops grown between November to April  
 (iii) They are Kharif crops grown between June to September  
 (iv) They are Kharif crops grown between November to April
30. What type of asexual reproduction do the following organisms undergo?  
 (i) Yeast                      (ii) plasmodium
31. Give the function of adrenal glands.  
 32. What is broadcasting in agriculture?  
 33. Cases of Obesity and Osteoporosis are very common among adolescents nowadays. Why?  
 34. Explain about the reproductive pattern in hens.  
 35. A zygote formed in a female body in human beings eventually leads to formation of a baby. Explain  
 36. (i) Name the three methods of weeding.  
 (ii) Which among them should be preferred? Why?  
 37. Even today in India a common mentality of people is preference of a boy child over a girl. Secondly the mother is held responsible for determination of sex of the child.  
 (i) How can you explain scientifically that the father is responsible for determination of sex of a child?  
 (ii) Girls are nowhere behind boys in any field. Comment.
38. (i) Draw a neat and labeled diagram of Female reproductive system.  
 (ii) Explain the metamorphosis of lifecycle of a frog.

**OR**

- (i) Different animals follow different reproductive patterns. Explain about any two of them citing examples.  
 (ii) With a neat labeled diagram show the various stages of budding in hydra.  
 39. (i) Fertilizers have a good percentage of credit in green revolution. But then why is it advised to reduce its usage. Justify giving two reasons.  
 (ii) What is the role of leguminous plants in this context?  
 (iii) What is field fallow?

**OR**

- (i) Give one advantage of each of the following.  
 a) Transplantation                      b) combine  
 c) Hybridization                      d) Tilling before sowing      e) crop rotation