

# **SSC PUBLIC EXAMS – TELANGANA STATE**

## **MODEL PAPER-2**

**SUB : GENERALSCIENCE**

**Class: X**

**Paper-I**

**Time : 2 hours 45 min**

**Max. Marks : 40**

### **Instructions :**

1. In the time duration of 2 hours 45 minutes, 15 minutes of time is allotted to read and understand the question paper.
2. Answer the questions under PART-A on Separate answer book
3. Write the answers to the questions under PART-B on the question paper itself and attach it to the answer book of PART-A

### **Part-A**

**Time : 2 hours 15 min**

**Max. Marks : 40**

### **Instructions :**

1. PART-A comprises of three sections I, II, III
2. All the questions are compulsory
3. There is no overall choice. However, there is internal choice to the questions under section III

### **Section-I**

#### **Note :**

**7x1=7**

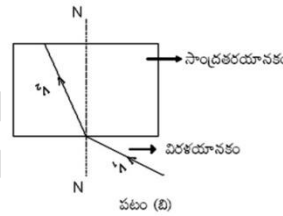
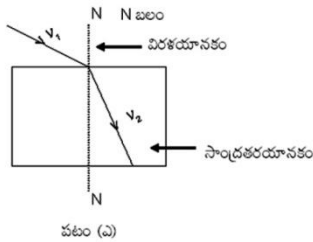
1. Answer all the questions
  2. Each question comes 1 mark
  3. Answer each question in 1 or 2 sentences
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1. List three metals that are found in nature as oxides?
  2. A wire of length 1m and radius 0.1mm has a resistance of  $100\Omega$ . Find the resistivity of the material.
  3. "It is not easy to fire a moving fish under the water" What is the reason. Explain about it?
  4. Ramu poured Equal amount water in a cap and in a dish and he put them out side. What he observed? Explain with experimentally.
  5. Fresh milk has a  $P^H$  of 6. Explain why the  $P^H$  changes as it turns into curd?
  6. Explain view shape of the rainbow. That the person who sees travelling on an aeroplane.
  7. Give the information about IA group elements and its metal property.

**Section-II****Note :****6x2=12**

1. Answer all the questions
2. Each question comes 2 mark
3. Answer each question in 4-5 sentences

8. What type of method that you have to use extraction of high reactivity metals. What is the reason.
9. What is the suitable material for making. The filament of a bulb? Why dose use that material in bulb?
10. Collect the information about lenses used by Galileo in his telescope?
11. Equal lengths of magnesium ribbons are taken in test tubes A and B. Hydrochloric acid (HCl) is added to test tube A, while acetic acid ( $\text{CH}_3\text{COOH}$ ) is added to test tube B. in which test tube will the Fizzing occur more vigorously and why?
12. Draw a neat diagram for showing acid solution in water conducting electricity.

13.



What type of difference that you observed from fig(1) and fig(2).

**Section-III****Note :****4x4=16**

1. Answer all the questions
2. Each question comes 4 mark
3. There is an internal choice for each question. Only re option from each question is to be attempted
4. Answer each question in 8-10 sentences

14. Derive faraday's law of induction from law of conservation of energy.

(OR)

Froth flotation process for the concentration of sulphide ores

15. What is the difference between chemical displacement and chemical decomposition. Explain then with proper examples.

(OR)

The refractive angle more than the incident angle when the light passes through the denser medium to rarer medium. Explain it with activity?

16. Junnu, the student heard that the value of incident angle is to be equal to the value of reflection angle to prove this write an experiment.

(OR)

Explain with the help of the activity that current carrying wire produces magnetic field.

17. What is octant rule? How do you appreciate the role of octant rule to explain the properties of element?

(OR)

Explain electrolysis experiment to release of hydrogen ( $H_2$ ) and oxygen ( $O_2$ ) in the ratio of 2:1

**PART-B****Time : 30 min.****4x4=16**

1. Answer all the questions
2. Each question carries ½ mark
3. Answers are to be written in the question paper only.
4. Marks will not be awarded in any case of overwriting rewriting or erased answers.
5. Write Capital Letter (A,B,C,D) Showing the current answer for the following questions in the brackets against them.

18. Active ingredient in cough syrups is ( )  
 A) Ethane                      B) Ethane                      C) Ethanol                      D) Ethanol
19. When no current flows through the solenoid, the flux linked with metal ring is ... ( )  
 a) Zero                      b) In opposite direction c) becomes Maximum d) reaches minimum
20. Which of the factor is effect of electric shock for human body ( )  
 a) High resistance              b) High voltage              c) High current              d) wet
21. Which one amongst the following is the weakest ( )  
 a) H-bond                      b) Vander Waal's forces  
 c) Three electrons bond              d) Ion dipole interactions
22. In the visible spectrum (VIBGYOR) the colour having the shortest wavelength is ( )  
 a) Green                      b) Red                      c) Voilet                      d) Blue
23. What is an Antacid? ( )  
 a) Strong acid                      b) Strong base                      c) Weak base                      d) Weak acid
24. Mirror formula is ( )  
 A)  $\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$               B)  $\frac{1}{u} = \frac{1}{v} + \frac{1}{f}$               C)  $\frac{1}{v} = \frac{1}{f} + \frac{1}{u}$               D)  $f = uv$  any factor
25. Enzyme present in Apple & potato is ( )  
 a) Toiling                      b) Polyphenyl enzymec) Tyrocinase                      d) B & C
26. Specific Heat = ( )  
 A)  $\frac{Q}{\Delta t}$                       B)  $Q\Delta t$                       C)  $\frac{Q}{m\Delta t}$                       D)  $\frac{m\Delta t}{Q}$
27. Electronic configuration of Aluminum is ( )  
 A)  $1s^2 2s^2 2p^6 3s^2 3p^2$                       B)  $1s^2 2s^2 2p^6 3s^2 3p^1$   
 C)  $1s^2 2s^2 2p^6 3s^2 3p^3$                       D)  $1s^2 2s^2 2p^6 3s^2 3p^4$