

ANDHRA PRADESH – SSC EXAMINATIONS - MARCH – 2017

IGNITE PHYSICS TARGET MODEL PAPER - 01

GENERAL SCIENCE , Paper – I

(Physical Sciences)

(English Version)

Time: 2 Hours 45 Min.

Parts A and B

Maximum Marks : 40

Instructions :

1. The Question paper contains Part-A and also Part-B.
2. 15 Min. is allotted for reading the question paper.
3. Answer the questions under Part-A on a separate answer booklet.
4. Write the answers to the questions under Part-B on the question paper itself and attach it to the answer booklet of Part-A.
5. Answer all the questions.

PART-A

Max. Marks : 30

Section - I

4 x 1 = 4 Marks

Note :

1. Answer all the questions.
2. Each question carries One mark.

1. Your friend is not able to understand about Rancidity. Prepare two questions to ask him to make awareness about rancidity.
2. Equal amounts of spirit are kept in a cup and in a dish. Which will evaporate faster? Why?
3. Classify the following as Ionic molecules and Covalent molecules.
NaCl H₂O CaCl₂ CH₄
4. What is the reason behind the shining of diamonds and how do you appreciate it?

Section - II

5 x 2 = 10 Marks

Note :

1. Answer all the questions.
2. Each question carries Two marks.
5. Write the differences between evaporation and boiling.
6. How mirages were formed ? Explain.
7. Explain the formation of Linear shape in BeCl₂ molecule with Hybridisation concept ?

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12. How do you verify that resistance of a conductor is inversely proportional to the area of cross section of the conductor for constant length and temperature?

(OR)

Explain the procedure of an activity to prove that Copper sulphate is an example for water of crystallization.

13. Draw a neat schematic diagram of A.C. generator. What is the use of generator ?

(OR)

Which method is used to concentrate Sulphide ore. Draw a neat diagram that represent that method. Label the parts.



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Time: 2 Hours 45 Min.

Parts A and B

Maximum Marks : 40

PART-B

Maximum Marks : 10

This Question paper contains 4 printed pages.

Instructions :

1. Answer all the questions.
2. Each question carries $\frac{1}{2}$ Mark.
3. Marks will not be awarded in case of any overwriting and rewriting or erased answers.
4. Write the answers to the questions under Part-B on the question paper itself and attach it to the answer booklet of Part-A.
5. Write the 'CAPITAL LETTER' showing the correct answer for the following questions in the brackets provided against them.

Section - IV

20 x $\frac{1}{2}$ = 10 Marks

14. Phase change of a substance from liquid to gas at constant temperature is called []
(A) Condensation (B) Evaporation
(C) Boiling (D) Sublimation
15. If an object is placed at 20 cm distance from the pole of a concave mirror, where should be the image formed? (f = 10 cm) []
(A) Between 'F' and 'P' (B) Beyond 'C'
(C) Between 'F' and 'C' (D) At 'C'
16. (i) Positive value (ii) Negative value
(iii) Less than +1 (iii) Greater than -1
The magnification of a convex mirror is
Choose the correct option : []
(A) (i) and (iii) (B) (i) and (iv)
(C) (ii) and (iii) (D) (ii) and (iv)
17. When a light ray travelled from air in to a medium, the critical angle was measured as 30° . Find the refractive index of the medium. []
(A) 2 (B) $\sqrt{2}$
(C) $\frac{1}{2}$ (D) $\frac{2}{\sqrt{3}}$
18. Lens formula []
(A) $\frac{1}{f} = (n - 1)\left(\frac{1}{R_1} - \frac{1}{R_2}\right)$ (B) $\frac{1}{f} = \frac{1}{v} + \frac{1}{u}$
(C) $\frac{1}{f} = (n - 1)\left(\frac{1}{R_1} + \frac{1}{R_2}\right)$ (D) $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$

19. The work done by chemical force to move electron from positive pole to negative pole in a battery is []
- (A) electro motive force (B) Potential
(C) Potential difference (D) Electric current
20. Match the following:
- | | |
|--------------|----------------------------------|
| Set-I | Set-II (Colours after corrosion) |
| (i) Iron | (a) Brown |
| (ii) Silver | (b) Black |
| (iii) Copper | (c) Green |
- Choose the correct answer : []
- (A) (i)-a, (ii)-b, (iii)-c (B) (i)-a, (ii)-c, (iii)-b
(C) (i)-c, (ii)-b, (iii)-a (D) (i)-b, (ii)-c, (iii)-a
21. Identify the chemical displacement reaction []
- (A) $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$
(B) $2\text{NH}_4\text{NO}_3 \rightarrow 2\text{N}_2 + \text{O}_2 + 4\text{H}_2\text{O}$
(C) $2\text{Al} + 3\text{CuCl}_2 \rightarrow 2\text{AlCl}_3 + 3\text{Cu}$
(D) $\text{Pb}(\text{NO}_3)_2 + 2\text{KI} \rightarrow \text{PbI}_2 + 2\text{KNO}_3$
22. Substances (i) Acid (ii) Base (iii) Salt
Which of the above substance is an electric conductor ?
Choose the correct answer : []
- (A) (i) and (ii) (B) (i) Only
(C) (i) , (ii) and (iii) (D) (ii) Only
23. The number of Sigma (σ) bonds and Pi (π) bonds present in Nitrogen molecule []
- (A) 1 σ and 1 π (B) 1 σ and 2 π
(C) 2 σ and 1 π (D) 1 σ and 3 π
24. Heating ore in the absence of air is called []
- (A) Combustion (B) Burning
(C) Calcination (D) Roasting
25. The functional group that represents Aldehyde []
- (A) -COOH (B) -OH
(C) -NH₂ (D) -CHO
26. A fish is in a pond. A hunter wants to shoot the fish accurately. Then..... []
- (A) He should shoot the image of the fish
(B) He should shoot below the image of the fish
(C) He should shoot above the image of the fish
(D) Either he shoot the image or above the image of the fish

