

GN-84

DISTRICT COMMON EXAMINATION BOARD, WARANGAL
SUMMATIVE ASSESSMENT - I, October-2016

PHYSICAL SCIENCE (Paper-I)

(English Version)

(Max Marks: 40)

Time : 2.45 Hrs.

Class : **X****Instructions :**

- i) This questions paper contain three sections (A, B and C) with questions from 1 to 29.
- ii) 15 minutes time is allotted exclusively for reading the question paper and 2 hours 30 min. for answering the questions.
- iii) All the answers are to be written on the seperate answer booklet.
- iv) Make use of the last page of the answer booklet for rough works if necessary, while answering the questions under section - 'C'.

SECTION - A

Note : i) Answer all the questions.

7 x 1 = 7

ii) Each question carries one mark.

1. State the cases where a real image is formed?
2. Mention the types of lenses based on the nature of their curved surfaces?
3. Where an object is to be placed to get a real and diminished image with a concave mirror?
4. Identify the "Dobereiner triad" in the elements Li, Sr, K, Ca, Na and I.
5. Write the list of materials required to get a rainbow in the class room.
6. Acid + Base \longrightarrow Salt + Water
 Acid + Metal oxide \longrightarrow Salt + Water
 What do you conclude from those two reactions ?
7. Identify the Acidic and Basic materials from the following table.

Material	Lime Juice	Distilled Water	Washing Soda	Blood
pH	2.2	7	12.8	7.4

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SECTION - II

Note : i) Answer all the questions

ii) Each question carries 2 marks.

iii) Answer each question in 4 to 5 sentences.

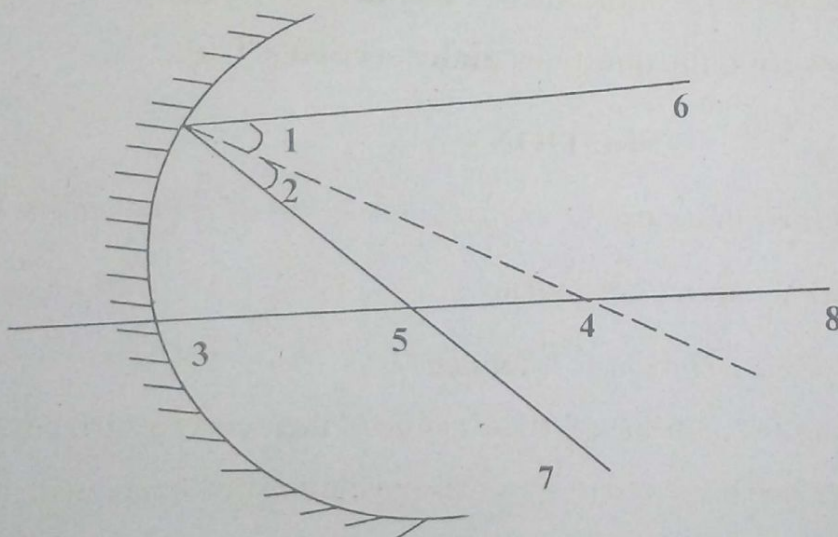
6 x 2 = 12

8. Ravi Watched certain images in the steel Vessels in his house. He asked to his brother Kiran a few questions about the images. Do you imagine What are those questions ? Write that questions
9. What precautions we have to take on using the following formulae

$$i) \frac{1}{f} = (n-1) \left[\frac{1}{R_1} - \frac{1}{R_2} \right] \quad \text{and} \quad ii) \frac{1}{f} = \frac{1}{v} - \frac{1}{u}$$

State the conditions to use the above formulae.

10. Identify the numbered parts in the following figure



11. Why pure acetic acid is not an electric conductor explain.
12. Write the electronic configuration of following elements.

Element	C	N	Ne	Na
Atomic number	6	7	10	11

from which, identify the element whose outer shell is completely filled with electrons.

13. Draw the shape of Methane molecule using dot structure.

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SECTION - III

Note : i) Answer all the questions

4 x 4 = 16

ii) There is an internal choice for each question. only one option for each question is to be attempted.

iii) Each question carries four marks.

iv) Answer each question in 8 to 10 sentences.

14. A) Write the properties of the images formed by

a) convex mirror b) concave mirror

Write the cases where of convex and concave mirrors are used with two examples.

(OR)

B) Explain "hypermetropia" with a neat diagram. How it will be adjusted?

15. A) Two lenses of different focal lengths are in the same system. Find the resultant focal length when

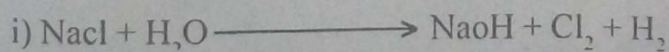
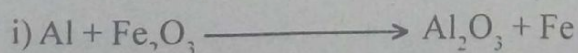
i) Two lenses are in contact and

ii) At a distance of d from each other

(OR)

B) Explain the procedure to determine the focal length of a convex lens.

16. A) Balance the following chemical reactions



What information do you get from a balanced equation ?

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(OR)

B) Explain the formation of a triple bond with an example

17. A) Write the uses of Baking Soda and Washing soda in your daily life situations.

(OR)

B) State the importance of pH scale in our daily life.

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PART-B

Class : **X (PAPER-I)**

Subject : **PHYSICAL SCIENCE**

10 x 1/2 = 5

Note : Choose the correct answer. Each question carries 1/2 Marks.

1. Always distances are measured from....., When using spherical mirrors.

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A) object

B) pole

C) Image

D) focus

2. If focal length is positive, the lens is _____

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A) concave

B) convex

C) plain

D) convexo concave

3. In VIBGYOR light has the least wave length

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A) Green

B) Red

C) Blue

D) Indigo

4. The angle of sight of a healthy man is _____

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A) 40°

B) 42°

C) 60°

D) 90°

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10. Identify the ionic compound

