

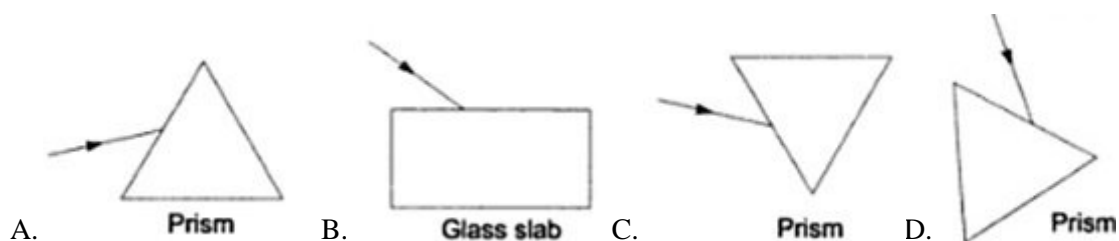


INDIAN SCHOOL AL WADI AL KABIR

Class: X	Department: SCIENCE 2020-2021 SUBJECT-PHYSICS	Date of submission: 30/04/2020
MCQ Worksheet No:2	Topic: HUMAN EYE AND THE COLOURFUL WORLD PART II	Note: A4 FILE FORMAT [PORTFOLIO]
NAME OF THE STUDENT	CLASS & SEC:	ROLL NO.

OBJECTIVE TYPE QUESTIONS

- Which of the following colors is least scattered by fog, dust of smoke?
 - Violet
 - Blue
 - Red
 - Yellow
- The colored light that refracts most while passing through a prism is
 - Yellow
 - Violet
 - Blue
 - Red
- In which of the following cases will no dispersion take place when sunlight passes through it?



- At noon the sun appears white as
 - light is least scattered
 - all the colours of the white light are scattered away
 - blue colour is scattered the most
 - red colour is scattered the most
- Which of the following phenomena of light are involved in the formation of a rainbow?
 - Reflection, scattering and dispersion
 - Refraction, dispersion and scattering

- (c) Refraction, dispersion and internal reflection
 - (d) Dispersion, scattering and total internal reflection
6. Twinkling of stars is due to atmospheric
- (a) dispersion of light by water droplets
 - (b) refraction of light by different layers of varying refractive indices
 - (c) scattering of light by dust particles
 - (d) internal reflection of light by clouds
7. The clear sky appears blue because
- (a) blue light gets absorbed in the atmosphere
 - (b) ultraviolet radiations are absorbed in the atmosphere
 - (c) violet and blue lights get scattered more than lights of all other colours by the atmosphere
 - (d) light of all other colours is scattered more than the violet and blue colour lights by the atmosphere
8. Which of the following statements is correct regarding the propagation of light of different colours of white light in air?
- (a) Red light moves fastest
 - (b) Blue light moves faster than green light
 - (c) All the colours of the white light move with the same speed
 - (d) Yellow light moves with the mean speed as that of the red and the violet light
9. The danger signals installed at the top of tall buildings are red in colour. These can be easily seen from a distance because among all other colours, the red light
- (a) is scattered the most by smoke or fog
 - (b) is scattered the least by smoke or fog
 - (c) is absorbed the most by smoke or fog
 - (d) moves fastest in air
10. Which of the following phenomena contributes significantly to the reddish appearance of the sun at sunrise or sunset?
- (a) Dispersion of light
 - (b) Scattering of light
 - (c) Total internal reflection of light
 - (d) Reflection of light from the earth
11. The bluish colour of water in deep sea is due to
- (a) the presence of algae and other plants found in water
 - (b) reflection of sky in water

- (c) scattering of light
- (d) absorption of light by the sea

12. Splitting of white light into seven colours on passing through the glass prism is called-

- a) Reflection
- b) Refraction
- c) Scattering
- d) Dispersion

13. For which colour, refractive index of glass is maximum?

- a) Red
- b) Violet
- c) Green
- d) Yellow

14. Which colour suffers least deviation on passing through a prism?

- a) Red
- b) Violet
- c) Indigo
- d) Blue

15. Blue colour of sky is due to-

- a) Scattering of light
- b) Reflection of light
- c) Refraction of light
- d) Diffraction of light

16. Red colour of the sun at the time of sunrise and sunset is because-

- a) Red colour is least scattered
- b) Blue colour is least scattered
- c) Red colour is scattered the most
- d) All colours are equally scattered

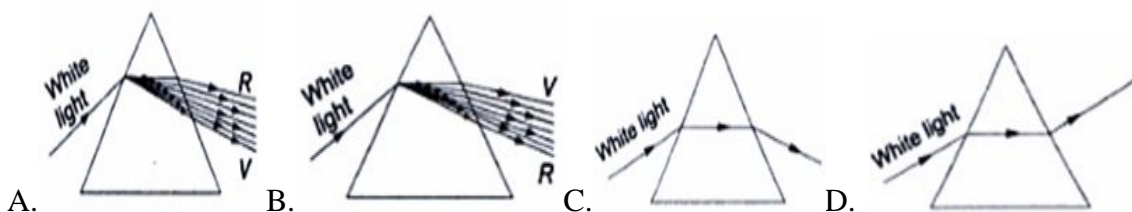
17. When a beam of white light falls on a glass prism, the colour of light which undergoes the least bending of all is:

- a. Violet
- b. Red
- c. Green
- d. Blue

18. The reason for stars appearing higher in sky than they actually are; is because of:

- a. Diffraction of light
- b. Scattering of light
- c. Refraction of light
- d. Reflection of light

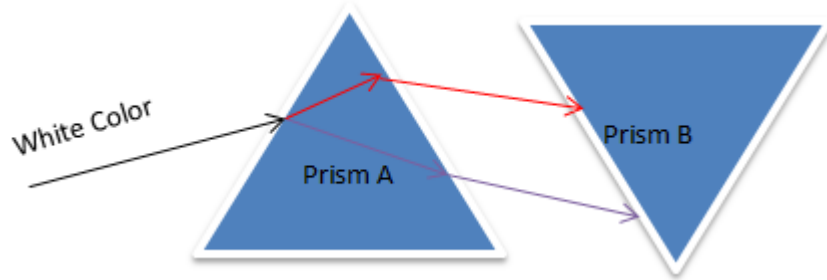
19. Which of the following figures correctly represents the passage of white light through prism?



20. The main reason of color of sky to be blue is

- (a) Dispersion of light
- (b) Scattering of light
- (c) Total Internal refraction of light
- (d) None of the above

21. Consider the following situation, what can be said about emergent ray/rays?



- (a) VIBGYOR (b) A Red light
(c) A White Light (d) A violet light

22. We see sunset _____ actual sunset happens.

- (a) 2 minute after (b) 2 minute before
(c) When (d) Both (a) and (b) is true, depending on situation
situation

23. What would have been the color of sky without atmosphere?

- (a) White (b) Blue
(c) Dark (d) Red

24. Suppose you are in danger, and you need to give signal to save yourself, what color you prefer?

- (a) Red (b) Yellow
(c) Blue (d) Violet

25. The sunlight is predominantly a mixture of _____ visible colours

- a. 5 b. 6
c. 7 d. none of these

26. The _____ colour is at the top and _____ colour is at the bottom of the spectrum

- a. Red, Violet b. Red, Blue
c. Violet, Red d. none of these

27. Who discovered by his experiment with glass prisms that white light consists of seven colours

- a. Maxwell b. Faraday
c. Einstein d. Newton

28. Which phenomenon is responsible for twinkling of stars

- a. Atmospheric reflection b. Atmospheric refraction
c. Reflection d. Scattering of light

ANSWER KEY

1. C	15. A
2. B	16. A
3. B	17. A
4. B	18. B
5. C	19. C
6. B	20. B
7. C	21. C
8. B	22. A
9. B	23. C
10. B	24. A
11. C	25. C
12. D	26. A
13. B	27. D
14. A	28. B

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