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11. Which of the following is a wrong statement?
a rainbow can be seen only when the sun is at your front
sometimes two rainbows can be seen simultaneously
the same rainbow can be observed by two persons if both have normal vision
rainbow is formed due to refraction of light in rain drops
Answer (c).
12. The separation of white light into its component colours is called :
Dispersion
Refraction
Reflection
Radiation
Answer (a).
13. Why do some automobiles have additional yellow headlights?
Yellow light does not produce dazzling effect in the eyes of the people coming from front
Yellow light consumes less power
Yellow light is able to penetrate the fog and is thus able to illuminate the road better in fogy nights
both (a) and (b)
Answer (c).

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14. 'Newton's disc' when rotated at a great speed appears :
Black
White
Shows seven colours
Green
Answer (b).
15. Which one among the following is not produced by sound waves in air?
Polarization
Diffraction
Reflection
Refraction
Answer (a).
16. Ultrasonic waves are those sound waves having frequency
between 20 hertz and 1000 hertz
between 1000 hertz and 20000 hertz
more than 20 kilohertz
less than 20 hertz
Answer (c).
17. When a ray of light is going from one medium to another, its
wavelength remains same
frequency remains same
frequency increases

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## Answer (b).

18. A jet plane flies through air with a velocity of 2 Mach. While the velocity of sound is 332 m/s the air speed of the plane is

166 m/s

66.4 km/s

332 m/s

664 m/s

Answer (d).

19. Light travels in optical fibre irrespective of its shape because it is a device by which signals can be transferred from one location to another. It is based on the phenomenon of

diffraction of light

refraction of light

polarization of light

total internal reflection of light

Answer (d).

20. Bats can ascertain distances, directions, nature and size of the obstacles at night. This is possible by reflection of the emitted

ultrasonic waves from the bat

ultrasonic waves from the distant objects

supersonic waves from the bat

supersonic waves from the distant objects

Answer (a).