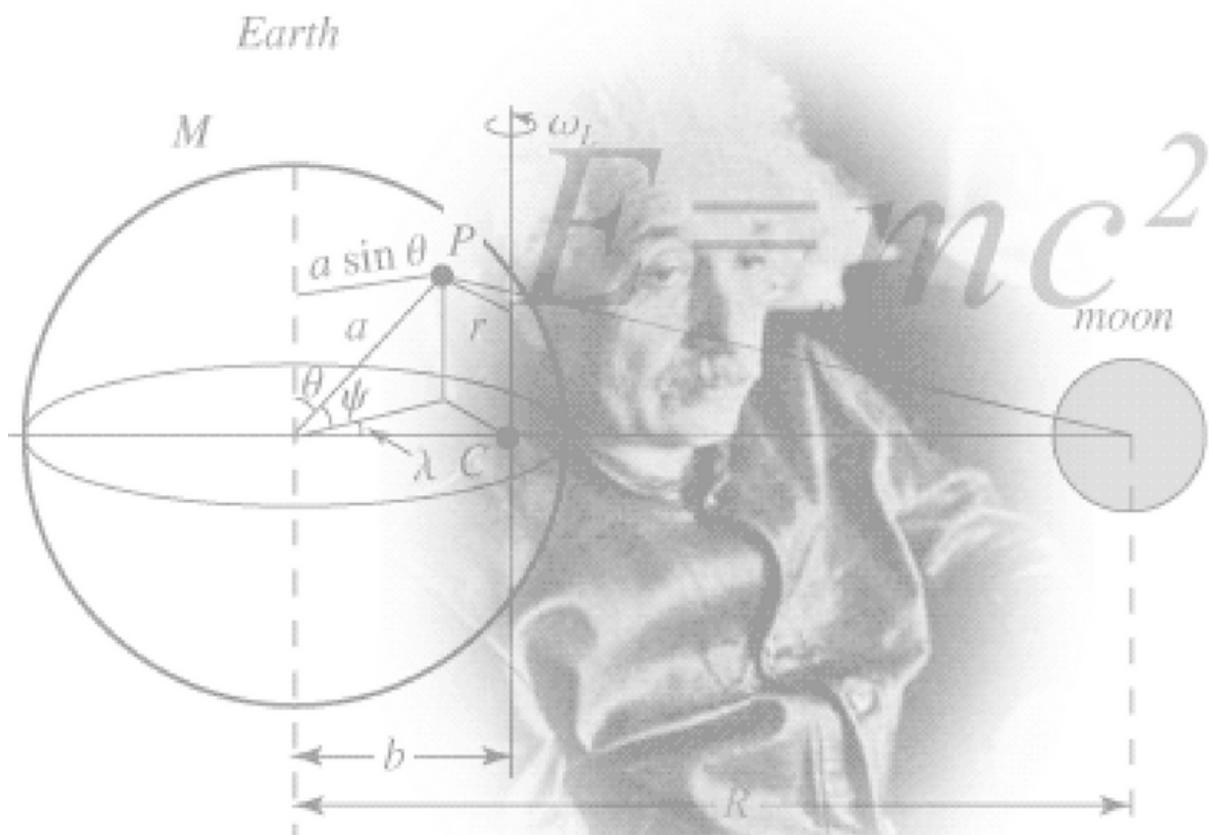


PHYSICS

MCQ



Physics Q&A – 1st August 2017

Q1. Optical fibre works on the principle of which of the following?

- (a) total internal reflection
- (b) refraction
- (c) scattering
- (d) interference

Ans: a

Q2. An endoscope is used by a physician to view the internal parts of a body organ. It is based on the principle of—

- (a) refraction of light
- (b) reflection of light
- (c) total internal reflection of light
- (d) dispersion of light

Ans: c

Q3. Which mirror is used as a rear view mirror in the vehicles?

- (a) Plane
- (b) Convex
- (c) Concave
- (d) Plano concave

Ans: b

Q4. Which of the following is the best conductor of electricity?

- (a) Aluminium
- (b) Copper
- (c) Silver
- (d) Gold

Ans: c

Q5. What type of electromagnetic radiation is used in the remote control of a television?

- (a) Infrared
- (b) Ultraviolet
- (c) Visible
- (d) None of these

Ans: a

Q6. Transformer is used

- (a) for converting AC into DC
- (b) for converting DC into AC
- (c) to step up DC voltages
- (d) to step up or step down AC voltages

Ans: d

Q7. Why Red light is used as danger signal?

- (a) is scattered least

- (b) is comfortable for eyes
- (c) produces least chemical reactions
- (d) absorbs least in air

Ans: a

Q8. Astronauts in space can't stand at one place, because

- (a) there is no gravity
- (b) viscous forces of the atmosphere are very strong
- (c) solar wind exert an upward force
- (d) atmospheric pressure is very low

Ans: a

Q9. If the doors of a refrigerator are left open for a few hours, the room temperature will—

- (a) decrease
- (b) increase
- (c) remain the same
- (d) decrease only in the area in the vicinity of the refrigerator

Ans: b

Q10. A body travelling with a speed of more than the velocity of sound in air is said to travel with—

- (a) supersonic speed
- (b) hypersonic speed
- (c) ultrasonic speed
- (d) infrasonic speed

Ans: a

Q11. The least distance of distinct vision for human eye is

- (a) 25 cm
- (b) 5 cm
- (c) 75 cm
- (d) 100 cm

Ans: a

Q12. Kerosene oil rises up in a wick of a lantern because of

- (a) diffusion of the oil through the wick
- (b) capillary action
- (c) buoyant force of air
- (d) the gravitational pull of the wick

Ans: b

Q13. Finger prints on a piece of paper may be detected by sprinkling fluorescent powder on the paper and then looking it into

- (a) mercury light
- (b) sunlight
- (c) infrared light
- (d) ultraviolet light

Ans: d

Q14. Which of the special technique is used in ships to calculate the depth of ocean beds?

- (a) LASER
- (b) SONAR
- (c) sonic boom
- (d) reverberation

Ans: b

Q15. A body is thrown vertically upwards and then falls back on the ground. When its potential energy is maximum?

- (a) on the ground
- (b) at the maximum height
- (c) during the return journey

Ans: b

Q16. Einstein got noble prize for which of the following?

- (a) Theory of relativity
- (b) Compton effect
- (c) Photoelectric effect
- (d) None of these

Ans.(c)

Q17. Why do two ice blocks join to form one block when pressed together?

- (a) Melting point of ice increases with increase in pressure
- (b) Melting point of ice is lowered with increase in pressure
- (c) Melting point of ice remains unchanged with increase in pressure
- (d) Melting point of ice is 0°C

Ans.(b)

Q18. When the distance between the object and the plane mirror increases—

- (a) the image remains same
- (b) the size of the image will become less than the size of the object
- (c) the distance between the image and the plane mirror decreases
- (d) the distance between the image and the plane mirror increases

Ans.(d)

Q19. Sound cannot travel though which of the following?

- (a) solids
- (b) vacuum
- (c) gases
- (d) liquids

Ans.(b)

Q20. A dynamo which is said to generate electricity actually acts as a—

- (a) Source of ions

- (b) Converter of energy
 - (c) Source of electric charge
 - (d) Source of electrons
- Ans.(b)

Q21. Which apparatus is used to measure the intensity of light?

- (a) Lux meter
 - (b) Calorimeter
 - (c) Anemometer
 - (d) Altimeter
- Ans.(a)

Q22. Of the two bulbs in a house, one glows brighter than the other. Which of the two has a large resistance?

- (a) The bright bulb
 - (b) The dim bulb
 - (c) Both have the same resistance
 - (d) The brightness does not depend upon the resistance
- Ans.(b)

Q23. L.P.G. is mostly liquefied--

- (a) hydrogen
 - (b) oxygen
 - (c) butane
 - (d) methane
- Ans.(c)

Q24. Which of the following phenomenon is responsible for “sun is seen before the actual sun rise”?

- (a) reflection
 - (b) scattering of light
 - (c) refraction
 - (d) rectilinear propagation of light
- Ans.(c)

Q25. Why a long jumper runs before jumping?

- (a) covers a greater distance
 - (b) gains momentum
 - (c) gains energy by running
 - (d) maintains conservation of momentum
- Ans.(b)

Q26. Who discovered Photoelectric effect?

- (a) Einstein
- (b) Hertz
- (c) Plank
- (d) Bohr

Ans.(b)

Q27. A jet engine works on the principle of conservation of –

- (a) energy
- (b) angular momentum
- (c) linear momentum
- (d) mass

Ans.(c)

Q28. A man with a dark skin, in comparison with a man with a white skin, will experience

- (a) less heat and less cold
- (b) more heat and less cold
- (c) less heat and more cold
- (d) more heat and more cold

Ans.(b)

Q29. Why electric iron uses wires of alloy?

- (a) they do not oxidise at high temperatures
- (b) they do not burn at high temperatures
- (c) both (a) and (b)
- (d) neither (a) nor (b)

Ans.(c)

Q30. For which one of the following is capillarity not the reason?

- (a) Blotting of ink
- (b) Spread a water drop on a cotton cloth
- (c) Rising of underground water
- (d) Rising of water from the roots of a plant to its foliage

Ans.(c)