

NEET Mock test – Physics – modelled on latest NEET UG 2026

Note: examination time for physics paper only : 1 hour 6 minutes max. There are two sections in latest 2026 format

Section A:

35 Nos. questions, all compulsory, all MCQ's, marking system is +4 for right answers, -1 for wrong answers , total 140 MARKS. (35x 4=140)

Section B:

10 Nos. choice questions out of total 15 questions, all MCQ's, marking system is +4 for right answers, -1 for wrong answers. Total 40 MARKS (10 x 4 =40)

Total marks: 140+40= 180 MARKS

✓ SECTION A — 35 Questions (MCQs)

1. A particle moves in a circle of radius r with constant speed v . The centripetal acceleration is:

- A. $\frac{v}{r}$
- B. $\frac{v^2}{r}$
- C. $\frac{r}{v^2}$
- D. vr

2. A block slides down a frictionless incline of angle 30° . Its acceleration is:

- A. g
- B. $g \cos 30^\circ$
- C. $g \sin 30^\circ$
- D. $g \tan 30^\circ$

3. A spring of constant $k = 200$ N/m is compressed by 0.1 m. Stored energy is:

- A. 1 J
- B. 0.5 J
- C. 2 J
- D. 10 J

4. A charge of $2\ \mu\text{C}$ is placed in an electric field of $5000\ \text{N/C}$. Force experienced is:

- A. $0.01\ \text{N}$
- B. $0.005\ \text{N}$
- C. $0.02\ \text{N}$
- D. $0.5\ \text{N}$

5. A capacitor of $5\ \mu\text{F}$ is charged to $100\ \text{V}$. Energy stored is:

- A. $0.025\ \text{J}$
- B. $0.5\ \text{J}$
- C. $0.05\ \text{J}$
- D. $25\ \text{J}$

6. Resistivity depends on:

- A. Length only
- B. Material only
- C. Area only
- D. Temperature only

7. A wire's length is doubled and area halved. Resistance becomes:

- A. Same
- B. Double
- C. Four times
- D. Half

8. Magnetic flux through a loop is maximum when field is:

- A. Parallel to loop
- B. Perpendicular to loop
- C. At 45°
- D. Zero

9. A projectile is fired at 45° . Range is maximum when speed is:

- A. Minimum
- B. Maximum
- C. Zero
- D. Independent of speed

10. In an Atwood machine, acceleration is:

- A. g
- B. $\frac{(m_1 - m_2)g}{m_1 + m_2}$
- C. $\frac{g}{2}$
- D. $\frac{m_1 g}{m_2}$

11. Snell's law is:

- A. $n_1 + n_2 = \sin i$
- B. $n_1 \sin i = n_2 \sin r$
- C. $\sin i = \sin r$
- D. $n_1 r = n_2 i$

12. Half-life of a substance is 2 hours. Fraction remaining after 6 hours:

- A. $1/2$
- B. $1/4$
- C. $1/8$
- D. $1/16$

13. Work done in isothermal expansion is:

- A. PdV
- B. $nRT\ln(V_2/V_1)$
- C. $\frac{1}{2}PV$
- D. Zero

14. Lens formula is:

- A. $v = fu$
- B. $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$
- C. $f = uv$
- D. $f = v - u$

15. Heat produced in resistor is:

- A. IRt
- B. I^2Rt
- C. Vt
- D. It/R

16. A body of mass 2 kg moves with velocity 5 m/s. Kinetic energy is:

- A. 10 J
- B. 25 J
- C. 5 J
- D. 50 J

17. Time period of a simple pendulum is proportional to:

- A. $\sqrt{L}$
- B. L
- C. $\frac{1}{L}$
- D. $1/\sqrt{L}$

18. A wave has frequency 50 Hz and wavelength 2 m. Speed is:

- A. 25 m/s
- B. 50 m/s
- C. 100 m/s
- D. 2 m/s

19. A transformer works on:

- A. DC
- B. AC
- C. Both
- D. Neither

20. A photon's energy is:

A. hf

B. h/f

C. $\frac{f}{h}$

D. h^2f

21. Bohr radius depends on:

A. Charge only

B. Mass only

C. Planck constant only

D. All of the above

22. Drift velocity increases when:

A. Area increases

B. Temperature increases

C. Electric field increases

D. Resistivity increases

23. A convex lens forms a real image when object is placed:

A. At focus

B. Beyond $2f$

C. Between lens and focus

D. At optical centre

24. A body floats when:

A. Density > fluid

B. Density < fluid

C. Density = fluid

D. None

25. Escape velocity depends on:

- A. Mass of body
- B. Mass of planet
- C. Temperature
- D. Pressure

26. A satellite in orbit has:

- A. Zero energy
- B. Positive energy
- C. Negative energy
- D. Infinite energy

27. A current-carrying conductor in magnetic field experiences force:

- A. Always zero
- B. Maximum when perpendicular
- C. Maximum when parallel
- D. Independent of angle

28. A diode allows current in:

- A. Both directions
- B. Reverse direction
- C. Forward direction
- D. No direction

29. A transistor is used for:

- A. Amplification
- B. Reflection
- C. Refraction
- D. Absorption

30. Binding energy per nucleon is highest for:

- A. Hydrogen
- B. Uranium
- C. Iron
- D. Helium

31. A blackbody absorbs:

- A. All radiation
- B. No radiation
- C. Only visible
- D. Only infrared

32. A photon has:

- A. Mass
- B. Charge
- C. Momentum
- D. Volume

33. A thermodynamic process at constant pressure is:

- A. Isochoric
- B. Isothermal
- C. Adiabatic
- D. Isobaric

34. A wave with particles oscillating perpendicular to direction of propagation is:

- A. Longitudinal
- B. Transverse
- C. Both
- D. Neither

35. A capacitor blocks:

- A. AC
- B. DC
- C. Both
- D. Neither

 SECTION B — 10 Questions (Attempt any 10)

36. A ball is thrown upward with speed 20 m/s. Maximum height:

- A. 10 m
- B. 20 m
- C. 15 m
- D. 5 m

37. A $10\ \Omega$ resistor carries 2 A. Power is:

- A. 20 W
- B. 40 W
- C. 10 W
- D. 4 W

38. A coil of 100 turns has flux change of 0.02 Wb in 0.1 s. Induced emf:

- A. 20 V
- B. 2 V
- C. 200 V
- D. 0.2 V

39. A 1 kg body at height 10 m has potential energy:

- A. 10 J
- B. 100 J
- C. 1 J
- D. 1000 J

40. A ray incident at 30° on plane mirror reflects at:

- A. 30°
- B. 60°
- C. 0°
- D. 90°

41. A $2\ \mu\text{F}$ capacitor charged to 50 V has charge:

- A. $100\ \mu\text{C}$
- B. $50\ \mu\text{C}$
- C. $25\ \mu\text{C}$
- D. $1\ \mu\text{C}$

42. A 1 m long pendulum has time period approx:

- A. 1 s
- B. 2 s
- C. 3 s
- D. 4 s

43. A 5 kg mass has a momentum = 20 kg·m/s. Its Velocity:

- A. 4 m/s
- B. 5 m/s
- C. 10 m/s
- D. 2 m/s

44. A wave has its amplitude doubled. Energy becomes:

- A. Same
- B. Double
- C. Four times
- D. Half

45. A 100 W bulb used for 1 hour consumes:

- A. 0.1 kWh
- B. 1 kWh
- C. 10 kWh
- D. 0.01 kWh

46. A block of mass 4 kg is moving with velocity 3 m/s. A constant retarding force of 6 N acts opposite to its motion. Time taken to come to rest is:

- A. 1 s
- B. 2 s
- C. 3 s
- D. 4 s

47. A uniform rod of length 2 m and mass 6 kg is pivoted at one end and held horizontally. Its moment of inertia about the pivot is:

- A. $4 \text{ kg} - \text{m}^2$
- B. $6 \text{ kg} - \text{m}^2$
- C. $8 \text{ kg} - \text{m}^2$
- D. $12 \text{ kg} - \text{m}^2$

48. The refractive index of glass is 1.5 and that of water is 1.33. A light ray passes from glass into water. Which statement is correct?

- A. It bends towards the normal.
- B. It bends away from the normal.
- C. It does not bend.
- D. It is totally internally reflected for all angles.

49. A resistor of resistance 20Ω is connected across a battery of 10 V. The current and power are respectively:

- A. 0.5 A, 5 W
- B. 2 A, 40 W
- C. 0.5 A, 2.5 W
- D. 1 A, 10 W

50. A sound wave has frequency 440 Hz and speed 330 m/s. Its wavelength is:

- A. 0.75 m
 - B. 1 m
 - C. 0.5 m
 - D. 1.5 m
- 