

DATE : 03/05/2026

Test Booklet Code



13

KAILASH

Corporate Office : 3rd Floor, Incuspaze Campus-2, Plot No. 13,
Sector-18, Udyog Vihar, Gurugram, Haryana - 122015.

Questions & Answers for NEET (UG)-2026

Time : 3 hrs.

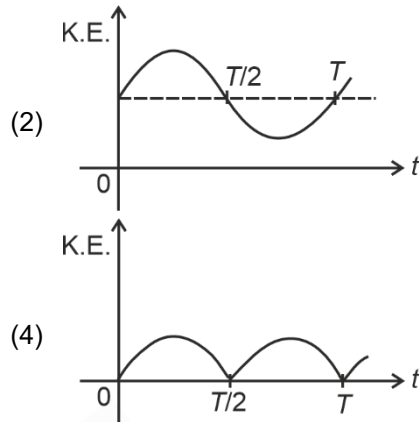
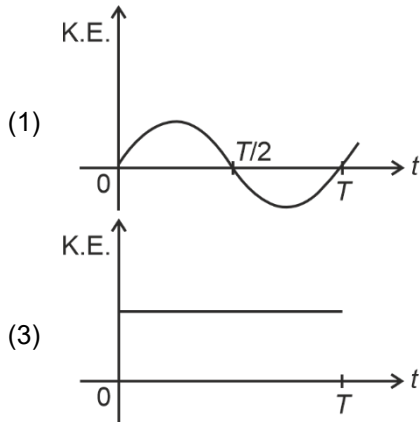
M.M. : 720

Important Instructions:

1. The test is of **3 hours** duration and the Test Booklet contains **180** multiple choice questions (Four options with a single correct answer) from **Physics, Chemistry and Biology (Botany and Zoology)**.
2. Each question carries **4 marks**. For each correct response, the candidate will get **4 marks**. For every wrong response, **1 mark** shall be deducted from the total scores. The maximum marks are **720**.
3. Use **Blue / Black Ball Point Pen only** for writing particulars on this page / marking responses on Answer Sheet.
4. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
5. On completion of the test, the candidate must handover the Answer Sheet to the Invigilator before leaving the Room / Hall. The candidates are allowed to take away this Test Booklet with them.
6. The CODE for this Booklet is **13**.
7. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your Roll No. anywhere else except in the specified space in the Test Booklet/Answer Sheet. Use of white fluid for correction is **NOT** permissible on the Answer Sheet.
8. Each candidate must show on demand his/her Admission Card to the Invigilator.
9. No candidate, without special permission of the Centre Superintendent or Invigilator, would leave his/her seat.
10. Use of Electronic/Manual Calculator is prohibited.
11. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of this examination.
12. No part of the **Test Booklet** and **Answer Sheet** shall be detached under any circumstances.
13. The candidates will write the Correct Test Booklet Code as given in the Test Booklet / Answer Sheet in the Attendance Sheet.

PHYSICS

1. For a simple pendulum, having time period T , the variation of kinetic energy (K.E.) with time (t) is represented by:



Answer (4)

2. A room heater is rated 400 W, 220 V. If the supply voltage drops to 200 V, what will be the power consumed (approximately)?

- (1) 400 W (2) 121 W
(3) 331 W (4) 200 W

Answer (3)

3. The angular speed of a flywheel is increased from 600 rpm to 1200 rpm in 10 s. The number of revolutions completed by the flywheel during this time is :

- (1) 600 (2) 300
(3) 900 (4) 150

Answer (4)

4. The sum of kinetic energy and potential energy of a simple pendulum bob is 0.02 joule. The speed of the simple pendulum bob at equilibrium position is approximately:

(Consider mass of the bob = 20 g)

- (1) 2.0 m/s (2) 0.2 m/s
(3) 14.1 m/s (4) 1.41 m/s

Answer (4)

5. A 100-turn closely wound circular coil of radius 5 cm has a magnetic field of 3.14×10^{-3} T at its centre. The current flowing through the coil, and the magnitude of the magnetic moment of this coil are, respectively :

(Take $\mu_0 = 4\pi \times 10^{-7}$ T m/A)

- (1) 2.5 A, 20 A m² (2) 2 A, 4 A m²
(3) 2.5 A, 2 A m² (4) 2 A, 10 A m²

Answer (3)

6. A submarine is designed to withstand an absolute pressure of 100 atm. How deep can it go below the water surface?

(Consider the density of water = 1000 kg m⁻³,
1 atm = 1×10^5 Pa and gravitational acceleration $g = 10$ m/s²)

- (1) 9900 m (2) 990 m
(3) 9000 m (4) 99 m

Answer (2)

10. The amount of work done to raise a mass 'm' from the surface of the Earth to a height equal to the radius of the Earth 'R' will be

- (1) $mg \frac{R}{2}$ (2) mgR
(3) $mg \frac{R}{4}$ (4) $2 mg R$

Answer (1)

11. When a ruler falls vertically, 5 different persons catch it with different reaction times.

($g = 9.8 \text{ m s}^{-2}$)

- A. Person A has reaction time of 0.20 s.
B. Person B has reaction time of 0.22 s.
C. Person C has reaction time of 0.18 s.
D. Person D has reaction time of 0.19 s.
E. Person E has reaction time of 0.21 s.

What is the **correct** order of the distance travelled by the ruler for each person?

- (1) $B > E > A > C > D$
(2) $C > D > A > E > B$
(3) $C > D > A > B > E$
(4) $B > E > A > D > C$

Answer (4)

12. The power of a crane, which lifts a mass of 1000 kg to a height of 20 m in 10 s is: ($g = 9.8 \text{ m/s}^2$)

- (1) 19.6 kW (2) 19.6 W
(3) 39.2 kW (4) 39.2 W

Answer (1)

13. Consider two uncharged capacitors of equal capacitance 200 pF. One of them is charged by a 100 V supply and disconnected. Now this capacitor is connected to the uncharged capacitor. The amount of electrostatic energy lost in the process is:

- (1) 0.5 J (2) $1.0 \times 10^{-6} \text{ J}$
(3) $0.5 \times 10^{-6} \text{ J}$ (4) 1.0 J

Answer (3)

14. An ac circuit contains a resistance of 1 k Ω , a capacitor of 0.1 μF and an inductor of 1 mH connected in series. The resonance frequency of the circuit is approximately:

- (1) 15.9 kHz (2) 20.7 kHz
(3) 10.1 kHz (4) 13.5 kHz

Answer (1)

25. Two statements are given below:
- A. When the forward bias voltage across a p-n junction diode increases above a certain threshold voltage, the diode current increases significantly.
- B. This current is called reverse saturation current.

Choose the **correct** answer from the options given below:

- (1) Both Statements A and B are true
 (2) Both Statements A and B are false
 (3) Statement A is true, but Statement B is false
 (4) Statement A is false, but Statement B is true

Answer (3)

26. In a concave lens, a ray of light emanating from the object parallel to the principal axis of the lens after refraction:
- (1) passes through the second principal focus.
 (2) appears to diverge from the first principal focus.
 (3) passes through $2F$, which is the radius of curvature of the lens.
 (4) emerges parallel to the principal axis.

Answer (2*)

27. An unknown nucleus has a nuclear density of $2.29 \times 10^{17} \text{ kg/m}^3$ and mass of $19.926 \times 10^{-27} \text{ kg}$. Its mass number A is approximately:

(Take $R_0 = 1.2 \times 10^{-15} \text{ m}$, $4\pi = 12.56$)

- (1) 16 (2) 20
 (3) 12 (4) 19

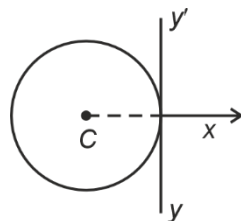
Answer (3)

28. A galvanometer of resistance 100Ω gives full scale deflection for a current of 1 mA . It is converted into an ammeter of range $0 - 10 \text{ A}$. The shunt required is:

- (1) 0.001Ω (2) 0.10Ω
 (3) 1.0Ω (4) 0.01Ω

Answer (4)

29. A thin wire of length ' L ' and linear mass density ' m ' is bent into a circular ring (in x-y plane) with centre ' C ' as shown in figure. The moment of inertia of the ring about an axis yy' will be :



- (1) $\frac{3mL^3}{8\pi}$ (2) $\frac{3mL^2}{8\pi^2}$
 (3) $\frac{3mL^3}{8\pi^2}$ (4) $\frac{3mL^2}{8\pi}$

Answer (3)

30. For a travelling harmonic wave

$y(x, t) = 2.0 \cos 2\pi(10t - 0.0080x + 0.35)$, where x and y are in cm and t in s. The phase difference between oscillatory motion of two points separated by a distance of 0.5 m is:

- (1) 0.08π rad
- (2) 0.008π rad
- (3) 0.8π rad
- (4) 8π rad

Answer (3)

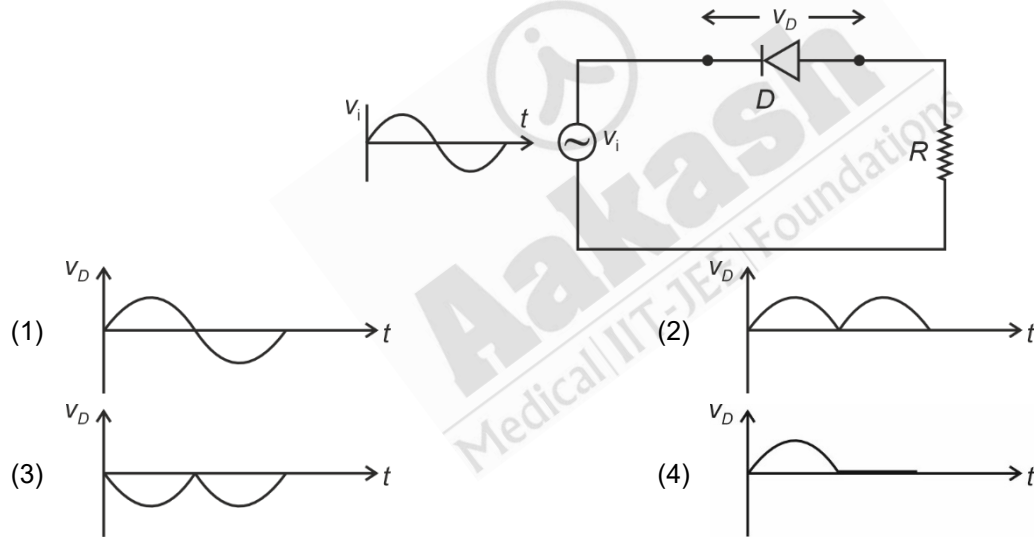
31. A box of mass 15 kg is kept on the floor of a stationary trolley. The coefficient of static friction between the box and the trolley is 0.12. Keeping the box in stationary state over the trolley, the maximum acceleration with which the trolley can be moved horizontally in m s^{-2} is:

($g = 10 \text{ m/s}^2$)

- (1) 1.8
- (2) 1.2
- (3) 1.5
- (4) 2.1

Answer (2)

32. In the circuit shown below, the voltage appearing across the diode D will be of the form:



Answer (4)

33. A flask contains argon and chlorine in the ratio of 2 : 1 by mass. The temperature of the mixture is 27°C . The ratio of root mean square speed of the molecules of the two gases $\left(\frac{V_{\text{rms}}^{\text{Ar}}}{V_{\text{rms}}^{\text{Cl}}}\right)$ is:

(Atomic mass of argon = 40.0 u and molecular mass of chlorine = 70.0 u)

- (1) $\frac{7}{4}$
- (2) $\frac{2}{\sqrt{7}}$
- (3) $\frac{\sqrt{7}}{2}$
- (4) $\frac{7}{2}$

Answer (3)

34. Match List I with List II:

	List-I (Electromagnetic wave)		List-II (Production)
A.	Microwave	I.	Electrons in atoms emit light when they move from a higher energy level to a lower energy level
B.	Visible light	II.	Radioactive decay of nucleus
C.	Gamma rays	III.	Vibration of atoms and molecules
D.	Infra-red rays	IV.	Klystron valve or magnetron valve

Choose the **correct** answer from the options given below:

- (1) A-IV, B-III, C-II, D-I
 (2) A-III, B-IV, C-I, D-II
 (3) A-III, B-I, C-II, D-IV
 (4) A-IV, B-I, C-II, D-III

Answer (4)

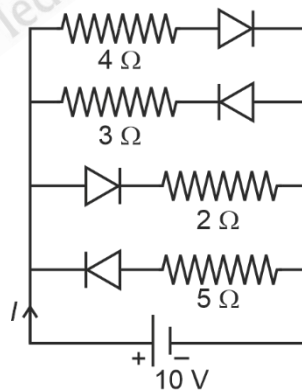
35. The magnitude and direction of the acceleration produced in a body of mass 5 kg when two mutually perpendicular forces 8 N and 6 N act on it, are respectively:

- (1) 2 m s^{-2} ; $\tan^{-1} (3/4)$ with 8 N force (2) 2 m s^{-2} ; $\tan^{-1} (4/3)$ with 8 N force
 (3) 2 m s^{-2} ; $\tan^{-1} (3/4)$ with 6 N force (4) 20 m s^{-2} ; $\tan^{-1} (4/3)$ with 8 N force

Answer (1)

36. The current I in the circuit shown below is:

(All diodes are ideal and identical)



- (1) $\frac{1}{3} \text{ A}$ (2) $\frac{15}{2} \text{ A}$
 (3) $\frac{5}{3} \text{ A}$ (4) $\frac{5}{9} \text{ A}$

Answer (2)

37. For a metal of work function 6.6 eV, which of the following wavelengths of incident radiation does **not** give rise to the photoelectric effect?

(Take Planck's constant as 6.6×10^{-34} J s)

- (1) 200 nm (2) 100 nm
(3) 50 nm (4) 150 nm

Answer (1)

38. The speed of light in vacuum is taken as unity. If light takes 6 min 40 s to reach the Earth from the Sun, the distance between the Sun and the Earth in new unit is:

- (1) 3×10^8 (2) 500
(3) 3×10^{10} (4) 400

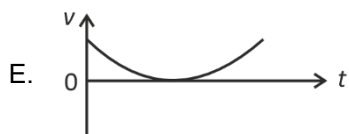
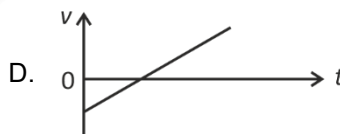
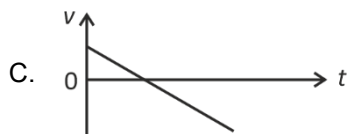
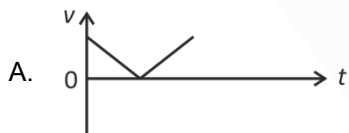
Answer (4)

39. A rectangular wire loop of sides 8 cm and 3 cm with a small cut, is moving out of a region of uniform magnetic field of magnitude 0.3 T directed normal to the plane of the loop. The emf developed across the cut, if the velocity of the loop is 2 cm s^{-1} , in a direction normal to the shorter side of the loop, will be :

- (1) 1.8×10^{-4} volt (2) 1.3×10^{-4} volt
(3) 1.2×10^{-4} volt (4) 4.8×10^{-4} volt

Answer (1)

40. The following plots show variation of velocity (v) with time (t) of a ball thrown vertically upward, and falling back. Which of the following plots is/are correct?



- (1) B only (2) A and E only
(3) C only (4) D only

Answer (3)

41. In a vernier calliper, 20 VSD coincide with 16 MSD (each division of length 1 mm). The least count of the vernier callipers is:

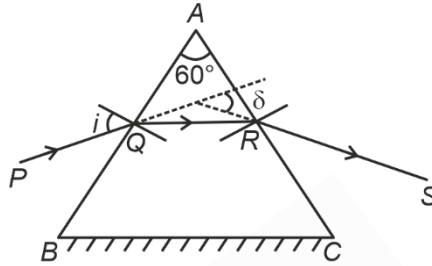
- (1) 0.2 cm (2) 0.1 cm
(3) 0.02 cm (4) 0.01 cm

Answer (3)

42. Each side of a metallic cube of mass 5.580 kg is measured to the 9.0 cm. Keeping the significant figures in view, the density of the material of the cube can be best expressed as $X \times 10^3 \text{ kg m}^{-3}$ where the value of X is:
- (1) 7.654 (2) 7.7
(3) 7.65 (4) 7.6

Answer (2)

43. A ray of monochromatic light is passing through an equilateral prism (ABC) as shown in the figure. The refracted ray (QR) is parallel to its base (BC) and the angle of incidence (i) is 50° . Then the angle of deviation (δ) is:



- (1) 45° (2) 55°
(3) 35° (4) 40°

Answer (4)

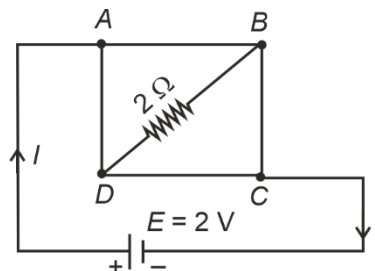
44. In the first excited state of hydrogen atom, the energy of its electron is -3.4 eV . The radial distance of the electron from the hydrogen nucleus in this case is approximately:

(Take $1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$, $e = 1.6 \times 10^{-19} \text{ C}$ and $\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N m}^2/\text{C}^2$)

- (1) $2.1 \times 10^{-8} \text{ m}$ (2) $2.1 \times 10^{-10} \text{ m}$
(3) $2.1 \times 10^{-11} \text{ m}$ (4) $2.1 \times 10^{-9} \text{ m}$

Answer (2)

45. A uniform metallic wire having resistance 4Ω is bent to form a square loop ($ABCD$) (see figure). A resistance of 2Ω is connected between points B and D and a battery of 2 V is connected across points A and C as shown in the figure. Now the value of current (I) is :



- (1) 4 A (2) 4.5 A
(3) 8 A (4) 2 A

Answer (4)