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# JEE

## (Main)

### PAPER-1 (B.E./B. TECH.)

# 2023

## COMPUTER BASED TEST (CBT) Questions & Solutions

**Date: 08 April, 2023 (SHIFT-2) | TIME : (3.00 p.m. to 6.00 p.m)**

**Duration: 3 Hours | Max. Marks: 300**




**SUBJECT: PHYSICS**

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**PART : PHYSICS**

31. The trajectory of projectile, projected from the ground is given by  $y = x - \frac{x^2}{20}$ . Where x and y are measured in meter. The maximum height attained by the projectile will be.

(1) 5 m                      (2)  $10\sqrt{2}$  m                      (3) 10 m                      (4) 200 m

NTA Ans. (1)

Reso Ans. (1)

Sol.  $dy/dx = 1 - x/10 = 0$   
 $x = 10$   
 $y_{\max} = 10 - 100/20 = 5 \text{ m}$

32. The acceleration due to gravity at height h above the earth if  $h \ll R$  (Radius of earth) is given by

(1)  $g' = g\left(1 - \frac{2h}{R}\right)$                       (2)  $g' = g\left(1 - \frac{2h^2}{R^2}\right)$                       (3)  $g' = g\left(1 - \frac{h^2}{2R^2}\right)$                       (4)  $g' = g\left(1 - \frac{h}{2R}\right)$

NTA Ans. (1)

Reso Ans. (1)

Sol.  $g' = \frac{GM}{(R+H)^2} = \frac{g}{\left(1 + \frac{h}{R}\right)^2} = g\left(1 - \frac{2h}{R}\right)$

33. Electric potential at a point 'P' due to a point charge of  $5 \times 10^{-9}\text{C}$  is 50 V. The distance of 'P' from the point charge is: (Assume,  $\frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{Nm}^2\text{C}^{-2}$ )

(1) 90 cm                      (2) 0.9 cm                      (3) 9 cm                      (4) 3 cm

NTA Ans. (1)

Reso Ans. (1)

Sol.  $v = \frac{kq}{r}$   
 $\Rightarrow 50 = \frac{9 \times 10^9 \times 5 \times 10^{-9}}{r} \Rightarrow r = \frac{9}{10} = 0.9\text{m}$   
 $r = 0.9 \times 100 = 90 \text{ cm}$

34. An emf of 0.08 V is induced in a metal rod of length 10 cm held normal to a uniform magnetic field of 0.4 T, when moves with a velocity of :

(1)  $2 \text{ ms}^{-1}$                       (2)  $0.5 \text{ ms}^{-1}$                       (3)  $20 \text{ ms}^{-1}$                       (4)  $3.2 \text{ ms}^{-1}$

NTA Ans. (1)

Reso Ans. (1)

Sol.  $\epsilon = BVL$   
 $0.08 = 0.4 (V) (0.1)$   
 $V = 2 \text{ m/s.}$

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35. Given below are two statement: one is labelled as **Assertion A** and the other is labelled as **Reason R**.

**Assertion A:** Electromagnets are made of soft iron.

**Reason R:** Soft iron has high permeability and low retentivity.

In the light of above, statement, choose the most appropriate answer from the options given below.

- (1) **A** is not correct but **R** is correct  
 (2) **A** is correct but **R** is not correct  
 (3) Both **A** and **R** are correct but **R** is **NOT** the correct explanation of **A**  
 (4) Both **A** and **R** are correct and **R** is the correct explanation of **A**

NTA Ans. (4)

Reso Ans. (4)

36. A hydraulic automobile lift is designed to vehicles of mass 5000 kg. The area of cross section of the cylinder carrying the load is 250 cm<sup>2</sup>. The maximum pressure the smaller piston would have to bear is [Assume g = 10 m/s<sup>2</sup>]

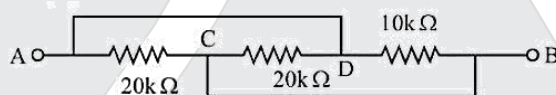
- (1)  $2 \times 10^{+5}$  Pa      (2)  $20 \times 10^{+6}$  Pa      (3)  $2 \times 10^{+6}$  Pa      (4)  $200 \times 10^{+6}$  Pa

NTA Ans. (3)

Reso Ans. (3)

Sol.  $P = \frac{F}{A} = \frac{Mg}{A} = \frac{5000 \times 10}{250 \times 10^{-4}} = 2 \times 10^6 \text{ N/m}^2$ .

37. The equivalent resistance between A and B as shown in figure is:



- (1) 5 kΩ      (2) 20 kΩ      (3) 10 kΩ      (4) 30 kΩ

NTA Ans. (1)

Reso Ans. (1)

Sol. Resistance are in parallel equipment =  $\frac{1}{R} = \frac{1}{20} + \frac{1}{20} + \frac{1}{10} = R = 5 \text{ k}\Omega$

38. In photo electric effect

- (A) The photocurrent is proportional to the intensity of the incident radiation.  
 (B) Maximum kinetic energy with which photoelectrons are emitted depends on the intensity of incident light.  
 (C) Max. K.E with which photoelectron are emitted depends on the frequency of incident light.  
 (D) The emission of photoelectron require a minimum threshold intensity of incident radiation.  
 (E) Max K.E of the photoelectrons is independent of the frequency of the incident light.

Choose the correct answer from the options given below:

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

NTA Ans. (3)

Reso Ans. (3)

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39. The temperature at which the kinetic energy of oxygen molecules becomes double than its value at 27°C is  
 (1) 1227°C (2) 627°C (3) 327°C (4) 927°C

NTA Ans. (3)

Reso Ans. (3)

Sol.  $K.E. \propto T$

$$\frac{K.E. T_2}{K.E. T_1} = 2 = \frac{T_2}{300}$$

$$T_2 = 600k = 327^\circ C$$

40. Work done by carnot engine operating between temperatures 127°C and 27°C is 2kJ. The amount of heat transferred to the engine by the reservoir is:

- (1) 2.27 kJ (2) 2kJ (3) 8 kJ (4) 4kJ

NTA Ans. (3)

Reso Ans. (3)

Sol.  $\eta = 1 - \frac{T_2}{T_1} = \frac{W}{Q_1}$

$$1 - \frac{300}{400} = \frac{2}{Q_1}$$

$$Q_1 = 8.$$

41. The width of fringe is 2 mm on the screen in a double slits experiment for the light of wavelength of 400 nm. The width of the fringe for the light of wavelength 600 nm will be:

- (1) 3 mm (2) 4 mm (3) 1.33 mm (4) 2 mm

NTA Ans. (1)

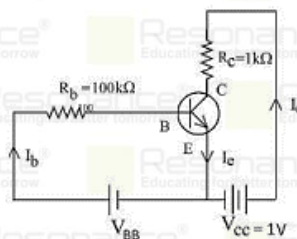
Reso Ans. (1)

Sol.  $\beta \propto \lambda$

$$\frac{\beta_1}{\beta_2} = \frac{\lambda_1}{\lambda_2}$$

$$\beta_2 = 3\text{mm}$$

42. For a given transistor amplifier circuit in CE configuration  $V_{CC} = 1\text{ V}$ ,  $R_C = 1\text{ k}\Omega$ ,  $R_B = 100\text{ k}\Omega$  and  $\beta = 100$ . Value of base current  $I_b$  is



- (1)  $I_b = 1.0\ \mu\text{A}$  (2)  $I_b = 0.1\ \mu\text{A}$  (3)  $I_b = 10\ \mu\text{A}$  (4)  $I_b = 100\ \mu\text{A}$

NTA Ans. (3)

Reso Ans. (3)

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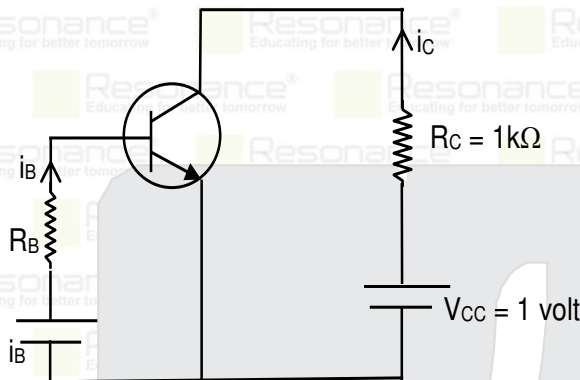
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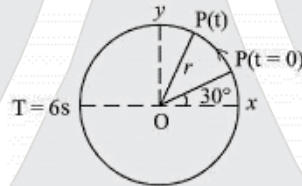
Sol. For saturation region  $V_{CE} \rightarrow 0$

$$V_{CE} = V_{CC} - i_c R_C = 1 - (i_c)(1000) = 0 \Rightarrow i_c = 1 \text{ mA}$$

$$i_B = \frac{i_c}{\beta} = \frac{1 \text{ mA}}{100} = 10 \mu\text{A}$$



43. For particle P revolving round the centre O with radius of circular path r and angular velocity  $\omega$ , as shown in below figure. the projection of OP on the x-axis at time is



(1)  $x(t) = r \cos\left(\omega t - \frac{\pi}{6}\right)$

(2)  $x(t) = r \cos\left(\omega t + \frac{\pi}{6}\right)$

(3)  $x(t) = r \sin\left(\omega t + \frac{\pi}{6}\right)$

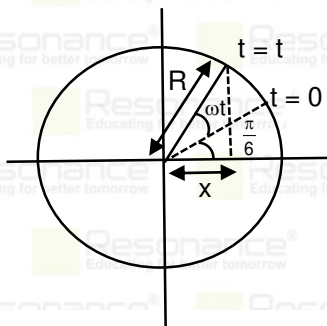
(4)  $x(t) = r \cos(\omega t)$

NTA Ans. (2)

Reso Ans. (2)

Sol.  $\cos\left[\omega t + \frac{\pi}{6}\right] = \frac{x}{R}$

$$x = R \cos\left[\omega t + \frac{\pi}{6}\right] \text{ where } \omega = \frac{2\pi}{T} = \frac{2\pi}{6} = \frac{\pi}{3}$$



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44. The waves emitted when a metal target is bombarded with high energy electrons are  
 (1) X-ray (2) Microwaves (3) Radio Waves (4) Infrared rays

NTA Ans. (1)

Reso Ans. (1)

45. Given below are two statements:

**Statement I :** Area under velocity-time graph given the distance travelled by the body in a given time

**Statement II :** Area under acceleration-time graph is equal to the change in velocity in the given time.

In the light of given statement, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are False  
 (2) Statement I is incorrect but Statement II is true.  
 (3) Statement I is correct but Statement II is False.  
 (4) Both Statement I and Statement II are true.

NTA Ans. (2)

Reso Ans. (2)

46. A radio active material is reduced to 1/8 of its original amount in 3 days. If  $8 \times 10^{-3}$  kg of the material is left after 5 days the initial amount of the material is  
 (1) 40 g (2) 32 g (3) 64 g (4) 256 g

NTA Ans. (4)

Reso Ans. (4)

Sol.  $T_1 = 1$  days  
 $\frac{2}{2}$

$$m_0 \times \frac{1}{32} = 8 \times 10^{-3}$$

$$m_0 = 32 \times 8 \times 10^{-3} = 256 \text{ gm}$$

47. The orbital angular momentum of a satellite is L, when it is revolving in a circular orbit at height h from earth surface. If the distance of satellite from the earth centre is increased by eight times to its initial value, then the new angular momentum will be-  
 (1) 3 L (2) 4 L (3) 9 L (4) 8 L

NTA Ans. (1)

Reso Ans. (1)

Sol.  $L = mvr = m \sqrt{\frac{GM}{r}} r = m \sqrt{GM} \sqrt{r}$

So  $L \propto \sqrt{r}$   $\frac{L_f}{L_i} = \sqrt{\frac{9r}{r}}$   $\frac{L_f}{L_i} = \sqrt{\frac{9r}{r}} \Rightarrow L_f = 3L_i = 3L.$

48. A bullet of mass 0.1 kg moving horizontally with speed  $400 \text{ ms}^{-1}$  hits a wooden block of mass 3.9 kg kept on a horizontal rough surface. The bullet gets embedded into the block and moves 20 m before coming to rest. The coefficient of friction between the block and the surface is (Given  $g = 10 \text{ m/s}^2$ )  
 (1) 0.50 (2) 0.90 (3) 0.25 (4) 0.65

NTA Ans. (3)

Reso Ans. (3)

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**Sol.** By momentum conservation

$$0.1 \times 400 = (3.9+0.1)V$$

$$V = 10 \text{ m/s}$$

$$v^2 = u^2 + 2as$$

$$0 = 10^2 - 2as$$

$$a = \frac{100}{40} = \frac{100}{400} = 2.5$$

$$\mu g = 2.5$$

$$\mu = 0.25$$

**49.** The power radiated from a linear antenna of length  $\ell$  is proportional to (Given,  $\lambda$  = Wavelength of wave):

- (1)  $\frac{\ell}{\lambda}$                       (2)  $\frac{\ell}{\lambda^2}$                       (3)  $\frac{\ell^2}{\lambda}$                       (4)  $\left(\frac{\ell}{\lambda}\right)^2$

**NTA Ans. (4)**

**Reso Ans. (4)**

**50.** Match List-I with List-II

**LIST-I**

- (A) Torque  
(B) Stress  
(C) Pressure gradient  
(D) Coefficient of viscosity

**LIST-II**

- (I)  $ML^{-2}T^{-2}$   
(II)  $ML^2T^{-2}$   
(III)  $ML^{-1}T^{-1}$   
(IV)  $ML^{-1}T^{-2}$

Choose the correct answer from the options given below:

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

**NTA Ans. (2)**

**Reso Ans. (2)**

**51.** A series combination of resistor of resistance  $100 \Omega$ , inductor of inductance  $1 \text{ H}$  and capacitor of capacitance  $6.25 \mu\text{F}$  is connected to an ac source. The quality factor of the circuit will be \_\_\_\_\_.

**NTA Ans. 4**

**Reso Ans. 4**

**Sol.** 
$$\frac{X_L}{R} = \frac{1}{\sqrt{LC}} \times \frac{L}{R} = \frac{1}{R} \sqrt{\frac{L}{C}} = \frac{1}{100} \sqrt{\frac{1}{6.25 \times 10^{-6}}} = 4$$

**52.** A body of mass  $5 \text{ kg}$  is moving with a momentum of  $10 \text{ kg ms}^{-1}$ . Now a force of  $2 \text{ N}$  acts on the body in the direction of its motion for  $5 \text{ s}$ . The increase in the Kinetic energy of the body is \_\_\_\_\_ J.

**NTA Ans. 30**

**Reso Ans. 30**

**Sol.** New momentum =  $20 \text{ kg-m/s}$

$$K_i = \frac{10^2}{2 \times 5} = 10, K_f = \frac{20^2}{2 \times 5} = 40$$

Change in K.E. =  $30\text{J}$ .

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53. Two transparent media having refractive indices 1.0 and 1.5 are separated by a spherical refracting surface of radius of curvature 30 cm. The centre of curvature of surface is towards denser medium and a point object is placed on the principle axis in rarer medium at a distance of 15 cm from the pole of the surface. The distance of image from the pole of the surface is \_\_\_\_\_ cm.

NTA Ans. 30

Reso Ans. 30

Sol. 
$$\frac{1.5}{V} - \frac{1}{-15} = \frac{1.5 - 1}{30}$$

$$V = -30$$

$$|V| = 30.$$

54. A steel rod of length 1 m and cross sectional area  $10^{-4} \text{ m}^2$  is heated from  $0^\circ\text{C}$  to  $200^\circ\text{C}$  without being allowed to extend or bend. The compressive tension produced in the rod is \_\_\_\_\_  $\times 10^4 \text{ N}$ . (Given Young's modulus of steel =  $2 \times 10^{11} \text{ Nm}^{-2}$ , coefficient of linear expansion =  $10^{-5} \text{ K}^{-1}$ )

NTA Ans. 4

Reso Ans. 4

Sol. 
$$\frac{F}{A} = y \frac{\Delta L}{L} = y\alpha(\Delta\theta)$$

$$F = Ay\alpha(\Delta\theta) = 10^{-4} \times 2 \times 10^{11} \times 10^{-5} \times 200 = 4 \times 10^4 .$$

55. The ratio of wavelength of spectral lines  $H_\alpha$  and  $H_\beta$  in the Balmer series is  $\frac{x}{20}$ . The value of x is \_\_\_\_\_.

NTA Ans. 27

Reso Ans. 27

Sol. For  $H_\alpha$   $n = 3 \rightarrow n = 2$

$$\frac{1}{\lambda_\alpha} = R \left[ \frac{1}{4} - \frac{1}{9} \right] = \frac{5R}{36}$$

for  $H_\beta$   $n = 4 \rightarrow n = 2$

$$\frac{1}{\lambda_\beta} = R \left[ \frac{1}{4} - \frac{1}{16} \right] = \frac{12R}{64} = \frac{3R}{16}$$

$$\frac{\lambda_\beta}{\lambda_\alpha} = \frac{3R}{16} \times \frac{36}{5R} = \frac{3}{5} \times \frac{9}{4} = \frac{27}{20}$$

56. The number density of free electrons in copper is nearly  $8 \times 10^{28} \text{ m}^{-3}$ . A copper wire has its area of cross section =  $2 \times 10^{-6} \text{ m}^2$  and is carrying a current of 3.2 A. The drift speed of the electrons is \_\_\_\_\_  $\times 10^{-6}$

NTA Ans. 25

Reso Ans. 25

Sol.  $i = neAv_d$






$$v_d = \frac{i}{neA} = \frac{3.2}{8 \times 10^{28} \times 1.6 \times 10^{-19} \times 2 \times 10^{-6}} = \frac{1}{8 \times 10^3} = \frac{5}{4} \times 10^{-4} = 125 \times 10^{-6} .$$

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57. The ratio of magnetic field at the centre of a current carrying coil of radius  $r$  to the magnetic field at distance  $r$  from the centre of coil on its axis is  $\sqrt{x}:1$ . The value of  $x$  is \_\_\_\_\_.

NTA Ans. 8

Reso Ans. 8

$$\text{Sol. } \frac{B_C}{B_P} = \frac{\mu_0 I}{2R} \times \frac{2(R^2 + R^2)^{3/2}}{\mu_0 I R^2}$$

$$\frac{(2R^2)^{3/2}}{R^3} = \frac{2\sqrt{2}}{1} = \frac{\sqrt{8}}{1}$$

58. A guitar string of length 90 cm vibrates with a fundamental frequency of 120 Hz. The length of the string producing a fundamental frequency of 180 Hz will be cm.

NTA Ans. 60

Reso Ans. 60

$$\text{Sol. } f \ell = f' \ell'$$

$$120 \times 90 = 180 \times \ell'$$

$$\ell' = 60 \text{ cm}$$

59. A 600 pF capacitor is charged by 200 V supply. It is then disconnected from the supply and is connected to another uncharged 600 pF capacitor. Electrostatic energy lost in the process is \_\_\_\_\_  $\mu\text{J}$ .

NTA Ans. 6

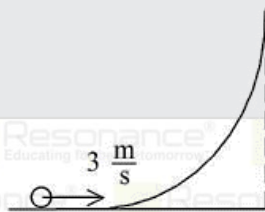
Reso Ans. 6

$$\text{Sol. } U_i = \frac{1}{2} (600) \times 10^{-12} (200)^2 = 12 \mu\text{J}$$

$$U_f = \frac{1}{2} (1200) \times 10^{-12} (100)^2 = 6 \mu\text{J}$$

$$\text{Loss} = U_i - U_f = 6 \mu\text{J}.$$

60. A hollow spherical ball of uniform density rolls up a curved surface with an initial velocity 3 m/s (as shown in figure). Maximum height with respect to the initial position covered by it will be \_\_\_\_\_ cm (take,  $g = 10 \text{ m/s}^2$ )



NTA Ans. 75

Reso Ans. 75

$$\text{Sol. } mgh = \frac{1}{2} mV^2 \left( 1 + \frac{k^2}{R^2} \right)$$

$$h = \frac{V^2}{2g} \left( 1 + \frac{2}{3} \right) \Rightarrow \frac{9}{20} \times \frac{5}{3} = \frac{3}{4} \text{ m} = 75 \text{ cm}.$$

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Roll No.: 219889118

**AIR-1**  
2021-2022

**AIR**  
**8**



**DHEERAJ  
KURUKUNDA**  
Roll No.: 219889116

Students  
In TOP-100  
All India  
Ranks  
(AIRs)



**AIR-11**

DEEPSHUSHU MALI  
Roll No.: 219889104



**AIR-16**

ANSHU MALIK  
Roll No.: 219889106



**AIR-35**

GANESH SHARMA  
Roll No.: 219889115



**AIR-60**

ANSHU MALIK  
Roll No.: 219889102



**AIR-64**

GANESH SHARMA  
Roll No.: 219889104



**AIR-68**

GANESH SHARMA  
Roll No.: 219889104

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Academic Session 2023-24

**Class: V to XII & XII+**



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