



# JEE (Main)

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

# 2023

## COMPUTER BASED TEST (CBT) Memory Based Questions & Solutions

Date: 30 January, 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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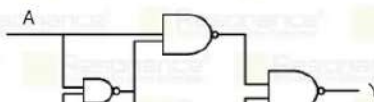
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### PART : PHYSICS

1. Find output y.



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

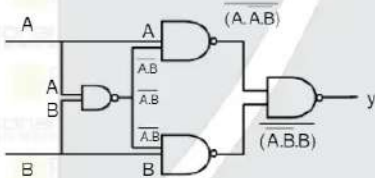
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

A	B	Y
0	0	0
0	1	0
1	0	1
1	1	0

Ans. (1)

Sol. We can write this by using demorgan theorem



$$y = \overline{(A.A.B)} + \overline{(A.B.B)} \quad \text{as } \overline{\overline{x}} = x$$

$$y = \overline{(A.A.B)} + \overline{(A.B.B)}$$

$$= \overline{A}(\overline{A+B}) + (\overline{A+B})\overline{B}$$

$$= \overline{A}(\overline{A+B}) + (\overline{A+B})\overline{B}$$

$$= \overline{A}\overline{A+B} + \overline{A+B}\overline{B}$$

A	B	A.A.B	A.B.B	y
0	0	1	0	0
0	1	1	0	1
1	0	1	1	0
1	1	0	0	0

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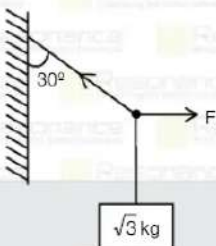
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2. Find the tension in string



- (1) 10 N      (2) 20 N      (3) 30 N      (4) 40 N

Ans. (2)

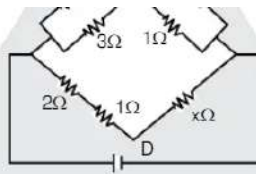
Sol.  $T \cos 30^\circ = \sqrt{3}g$

$$T \times \frac{\sqrt{3}}{2} = \sqrt{3}g$$

$$T = 20 \text{ N}$$

3. In given circuit potential of B & D is same and  $x = \frac{1}{n}$  then find the value of n.





- (1) 6                      (2) 2                      (3) 8                      (4) 12

Ans. (2)

Sol. If  $V_B = V_D$  then using wheat stone bridge

$$\frac{2}{3} = \frac{x}{x+1}$$

$$2x^2 + 2x = 3x$$

$$2x^2 + 2x - 3x = 0$$

$$2x^2 - x = 0$$

$$x(2x - 1) = 0$$

$$x = \frac{1}{2}$$

$$x = \frac{1}{n} = \frac{1}{2}$$

$$n = 2$$

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4. A car is moving with velocity with 3 km/hr for 4 km and next 4 km is moving with 5 km/hr. then find average speed.

- (1)  $\frac{10}{2}$                       (2)  $\frac{15}{3}$                       (3)  $\frac{15}{4}$                       (4)  $\frac{20}{4}$

Ans. (3)

Sol. Average speed =  $\frac{2V_1V_2}{V_1 + V_2} = \frac{2 \times 3 \times 5}{3 + 5} = \frac{15}{4}$  km/hr

5. Statement-1 : Efficiency of carnot cycle is maximum at  $-273^\circ\text{C}$

Statement-2 :  $\eta = 1 - \frac{T_2}{T_1}$

- (1) Statement-1 is True, Statement-2 is True; Statement-2 is a correct explanation for Statement-1.  
 (2) Statement-1 is True, Statement-2 is True; Statement-2 is NOT a correct explanation for Statement-1  
 (3) Statement-1 is True, Statement-2 is False  
 (4) Statement-1 is False, Statement-2 is True

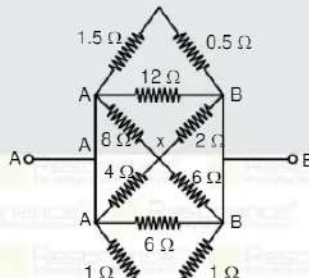
Ans. (1)

Sol. At  $\Delta K$ ,  $\eta = 1 - \frac{T_{\text{sink}}}{T_{\text{source}}}$

$\eta = 1 - \frac{0}{T}$  when  $T_{\text{sink}} = 0$

$\eta = 1$

6. Find equivalent, resistance across A & B.



- (1)  $\frac{50}{149} \Omega$       (2)  $\frac{200}{149} \Omega$       (3)  $\frac{100}{149} \Omega$       (4)  $\frac{300}{149} \Omega$

Ans. (3)

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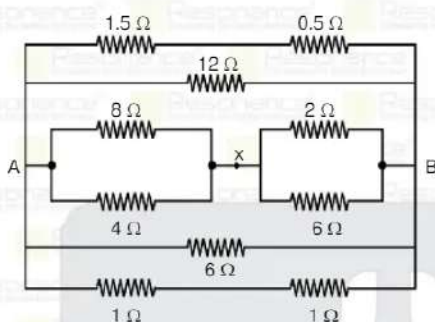
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Sol.



$$\frac{1}{R_{eq}} = \frac{1}{2} + \frac{1}{12} + \frac{6}{25} + \frac{1}{6} + \frac{1}{2}$$

$$\frac{1}{R_{eq}} = \frac{150 + 25 + 72 + 50 + 150}{300}$$

$$R_{eq} = \frac{300}{447} = \Omega$$

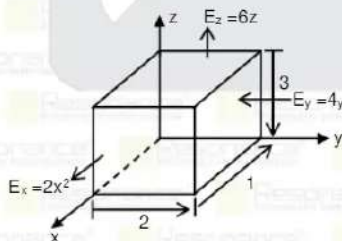
$$R_{eq} = \frac{100}{149}$$

7. If  $\vec{E} = 2x^2\hat{i} - 4y\hat{j} + 6z\hat{k}$  find the charge in cuboid of side (1,2,3) with one vertex at origin.

- (1)  $14\epsilon_0$       (2)  $18\epsilon_0$       (3)  $24\epsilon_0$       (4)  $5\epsilon_0$

Ans. (3)

Sol.



$$\text{As } \phi = \vec{E} \cdot \vec{A}$$

then are 6 surface so will find it for every surface.

(i) face at  $x = 0$

$$\phi_{ox} = E_x \cdot A = 0$$

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(ii) face at  $x = 1$

$$\phi_{zx} = 2(1)^2 \times (3 \times 2) = 2 \times 6 = 12$$

(iii) face at  $y = 0$

$$\phi_{oy} = 0 [\because E_{y=0} = 4 \times 0 = 0]$$

(iv) face at  $y = 2$

$$\phi_{2y} = -4 \times 2 \times 3 \times 1 = -24$$

(negative sign: area vector &  $\vec{E}$  are opposite)

(v) face at  $z = 0$ ,  $\phi_{oz} = 0$

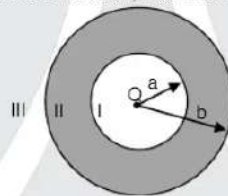
(vi) face at  $z = 3$ ,  $\phi_{3z} = (6 \times 3) \times 1 \times 2 = 36$

$$\phi_{\text{net}} = \phi_{zx} + \phi_{yx} + \phi_{oy} + \phi_{2y} + \phi_{oz} + \phi_{3z} = 0 + 12 - 24 + 0 + 0 + 36$$

$$\phi_{\text{net}} = 24$$

$$\text{as } \phi_{\text{net}} = q/\epsilon_0 \Rightarrow q = 24\epsilon_0$$

8. A Solid conducting sphere has a cavity there is a charge inside the cavity. Radius of inner surface & outer surface are 'a' & b respectively electric field at I, II & III are.



(1)  $E_I \neq 0$ ,  $E_{II} = 0$ ,  $E_{III} \neq 0$

(2)  $E_I = 0$ ,  $E_{II} \neq 0$ ,  $E_{III} = 0$

(3)  $E_I = 0$ ,  $E_{II} = 0$ ,  $E_{III} = 0$

(4)  $E_I \neq 0$ ,  $E_{II} \neq 0$ ,  $E_{III} = 0$

Ans. (1)

9. Two prism A & B are placed such a way that the mean deviation through prism is zero. The angle of prism A & B are  $6^\circ$  &  $\theta^\circ$ . Then find  $\theta$ . ( $\mu_A = 1.54$ ,  $\mu_B = 1.72$ )

(1) 2.5

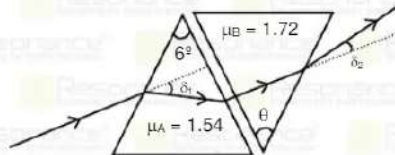
(2) 1.5

(3) 4.5

(4) 9

Ans. (3)

Sol. As we know  
 $S_1 + S_2 = 0$



$$A(\mu_A - 1) - B(\mu_B - 1) = 0$$

$$6(1.54 - 1) - \theta(1.72 - 1) = 0$$

$$6 \times 0.54 - \theta \times 0.72 = 0$$

$$\Rightarrow \theta = \frac{6 \times 3}{4} = 4.5^\circ$$

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10. Current flowing through sides of equilateral triangular loop having side  $4\sqrt{3}$  m is 2A. Find the magnetic field at centroid.

(1)  $\sqrt{3} \times 10^7$  T

(2)  $3\sqrt{5} \times 10^7$  T

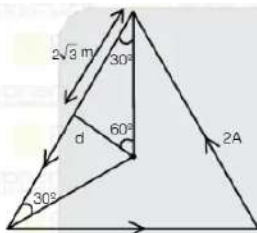
(3)  $3\sqrt{3} \times 10^7$  T

(4)  $3\sqrt{2} \times 10^7$  T

Ans. (3)

Sol.  $\tan 30^\circ = \frac{d}{2\sqrt{3}}$

$$\frac{1}{\sqrt{3}} = \frac{d}{2\sqrt{3}} \quad d = 2\text{m}$$



$$B_{\text{net}} = B_1 + B_2 + B_2 (\bullet)$$

$$\text{But } B_1 = B_2 = B_2 = B$$

$$\text{Between : } B = \frac{3 \times \mu_0 i}{4\pi d} [\sin 60^\circ + \sin 60^\circ]$$

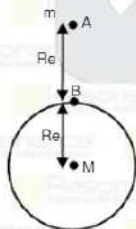
$$3 \times 2 \times 10^{-7} \times \frac{2}{2} \times 2 \times \frac{\sqrt{3}}{2} = 3\sqrt{3} \times 10^{-7} \text{ T}$$

11. A particle is released from a height equal to radius of earth, above the surface of earth. Its velocity when it hits the surface of earth is equal to

(1)  $V = \sqrt{\frac{2GM}{R_e}}$       (2)  $V = \sqrt{\frac{GM}{2R_e}}$       (3)  $V = \sqrt{\frac{3GM}{R_e}}$       (4)  $V = \sqrt{\frac{GM}{R_e}}$

Ans. (4)

Sol.



By energy conservation,  $PE_A + KE_A = PE_B + KE_B$

$$\frac{-GMm}{2R_e} + 0 = \frac{-GMm}{R_e} + \frac{1}{2}mv^2 \Rightarrow \frac{GMm}{2R_e} = \frac{1}{2}mv^2$$

$$v = \sqrt{\frac{GM}{R_e}}$$

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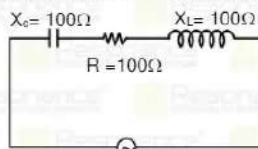
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12. In the AC circuit shown in the figure the Value of  $I_{\text{RMS}}$  is equal to



$$V = 200\sqrt{2} \sin \omega t$$

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

Ans. (1)

Sol.  $I_{\text{RMS}} = \frac{V_{\text{RMS}}}{Z}$

$$Z = \sqrt{R^2 + (X_L - X_C)^2} = \sqrt{100^2 + (100 - 100)^2} = 100$$

$$V_{\text{RMS}} = \frac{200\sqrt{2}}{\sqrt{2}} = 200 ; I_{\text{RMS}} = \frac{200}{100} = 2 \text{ A}$$

13. A faulty scale reads  $5^\circ\text{C}$  at melting point and  $95^\circ\text{C}$  at steam point. Find original temperature if this faulty scale reads  $41^\circ\text{C}$

- (1) 213.15K      (2) 375.15K      (3) 113.15K      (4) 313.15K

Ans. (4)

Sol.  $\frac{X - LFP}{UFP - LFP} = \text{constant}$

$$\frac{41 - 5}{95 - 5} = \frac{C - 0}{100 - 0}$$

$$\frac{36}{90} = \frac{C}{100}$$

$$C = 40^\circ\text{C}$$

$$\text{in k } C \rightarrow 40 + 273.15$$

$$C = 313.15 \text{ K}$$

14. Ratio of De-Broglie wavelength when electron is accelerated by  $V$  &  $2V$

(1)  $\frac{1}{\sqrt{2}}$

(2)  $\sqrt{2}$

(3) 1

(4)  $\frac{1}{2}$

Ans. (2)

Sol.  $\lambda = \frac{h}{mv} = \frac{h}{\sqrt{2meV}} \dots (1)$

$$\lambda' = \frac{h}{\sqrt{2m(e2V)}} \Rightarrow \frac{\lambda}{\lambda'} = \frac{\sqrt{2}}{1}$$

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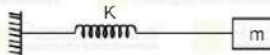
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15. Ratio of angular frequency where  $m_1 = 1$  &  $m_2 = 2$ .



(1)  $\frac{1}{\sqrt{2}}$

(2) 2

(3) 1

(4)  $\sqrt{2}$

Ans. (1)

Sol.  $F = kx$

$$ma = Kx$$

$$\omega^2 = K/m$$

$$a = \frac{K}{m} x$$

$$\omega = \sqrt{\frac{K}{m}}$$

$$\frac{\omega_2}{\omega_1} = \sqrt{\frac{1}{2}} = \frac{1}{\sqrt{2}}$$

16. Two wave of same intensity from source in phase are made to superimpose at a point. If path difference between these two coherent wave is zero then resultant intensity is  $I_0$ . If the path difference is  $\lambda/2$ . Where  $\lambda$  is wavelength of these waves then resultant intensity is  $I_1$  & if the path difference is  $\lambda/4$  then resultant

intensity is  $I_2$ . Value of  $\frac{I_0}{I_1 + I_2}$  is equal to :

(1) 2

(2) 4

(3) 6

(4) 8

Ans. (1)

Sol. As, resultant intensity  $I_{\text{net}} = 4I \cos^2(\phi/2)$  where  $I$  is the intensity of both source &  $\phi$  is phase difference.

For  $I_0$

$$I_0 = 4I \cos^2(0^\circ) = 4I \dots (1)$$

For  $I_1$

$$\text{Phase difference} = \frac{2\pi}{\lambda} (\text{Path difference})$$

$$I_1 = 4I \cos^2(\pi/2) = 0$$

$$\text{So, } I_2 = 4I \cos^2\left(\frac{\pi}{4}\right) = 2I$$

$$\text{So, } \frac{I_0}{I_1 + I_2} = \frac{4I}{0 + 2I} = 2$$

17. Match the column

(A) Impulse

(B) Energy density

(p)  $ML^2T^{-2}$

(q)  $ML^{-1}T^{-2}$

- (b) Energy density  
(C) Pressure Gradient  
(D) Torque

- (q)  $ML^{-1}T^{-1}$   
(r)  $MLT^{-1}$   
(s)  $ML^{-2}T^{-2}$

- (1) A - p ; B - s ; C - q ; D - r  
(2) A - r ; B - q ; C - s ; D - p  
(3) A - s ; B - p ; C - q ; D - r  
(4) A - p ; B - r ; C - s ; D - q

Ans. (2)

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18. Match the columns & choose the correct option

- (A) Attenuation : (i) Reverse process of modulation  
(B) Repeater : (ii) a device/arrangement which converts one form of energy into another  
(C) Demodulator : (iii) loss of signal strength during its propagation.  
(D) Transducer : (iv) converts the message signal into a form suitable for transmission  
(E) Transmitter : (v) An arrangement which help us to improve the range of signal
- (1) A-(ii), B-(iii), C-(i), D-(iv), E-(v)      (2) A-(iii), B-(v), C-(i), D-(ii), E-(iv)  
(3) A-(iii), B-(v), C-(ii), D-(i), E-(iv)      (4) A-(ii), B-(iii), C-(iv), D-(v), E-(i)

Ans. (2)

19. A gun of mass 10 kg & bullet of 20 g & 180 bullets fired/min with velocity 100 m/s. What is recoil velocity after 1 sec.

- (1) 0.4 m/s      (2) 0.6 m/s      (3) 0.8 m/s      (4) 1.0 m/s

Ans. (2)

Sol. Momentum conservation



$$n_0 M_B V_B = M_G V_G$$

$$M_G V_G = -n M_B V_B$$

$$V_G = \frac{-n M_B V_B}{M_G}$$

$$V_G = 0.6 \text{ m/s}$$

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CLASS  
STARTS

6<sup>th</sup> FEBRUARY  
2023

### ACADEMIC FEATURES

- Course Duration: **15 Weeks**
- Total No. of Lectures: **234** (P: 78 | C: 78 | M: 78)
- Duration of One Lecture: **1.5 hrs.** (90 Minutes)
- Classroom Teaching Hours: **351 Hrs.**
- Testing Duration: **60 Hrs.**
- Total Academic Hours: **411 Hrs.**

### Course Features

- Study Material
- Back up support of recorded lectures
- 2000+ Classes
- Dual Full Syllabus Test Series

### Facilities for Offline Students

- In-house Computer Lab
- Self Study Rooms for Boys & Girls



## TARGET: JEE (Main) 2023

Boost your Percentile with

# PERCENTILE BOOSTER COURSE

8 WEEKS COMPAC COURSE

OFFLINE / ONLINE

CLASS  
STARTS

6<sup>th</sup> FEBRUARY  
2023

### COURSE FEATURES

- Complete Course Coverage
- 25 Chapter wise Test
- Regular Practice through 35 Daily Online Practice Test
- 5 Full Syllabus Test
- 3 Joint Preparatory Test
- Approx 2500 practice Ques.
- 113 Teaching hours
- 99 Testing Hours
- Regular Test discussion classes for concept clearance
- Back up support of recorded lectures



STUDENTS FROM CLASSROOM PROGRAM (OFFLINE / ONLINE)

**AIR 6**



**KARTHIKEYA POLISETTY**  
Roll No.: 21925115

**AIR-1 GEN-EWS**

**AIR 8**



**DHEERAJ KURUKUNDA**  
Roll No.: 21920914

Students in TOP-100 All India Ranks (AIRs)



**AIR-11**  
DEWANGANJI MALI  
Roll No.: 21019044



**AIR-15**  
ASHRUTI ANAND  
Roll No.: 21925165



**AIR-35**  
SANCHAR SHRIVYA  
Roll No.: 21925155



**AIR-50**  
ANSHUL GARG  
Roll No.: 21020102



**AIR-54**  
SULMITRA D. NAVIK  
Roll No.: 21020954



**AIR-58**  
KARISHK SHARMA  
Roll No.: 21020454

**ADMISSIONS OPEN FOR ACADEMIC SESSION 2023-24**

**TARGET: JEE (Adv.) 2024**

for Class XII Passed Student

**VISHESH COURSE**  
MODE: OFFLINE / ONLINE

CLASS STARTS  
10<sup>th</sup> & 17<sup>th</sup> April

**TARGET: JEE (Main) 2024**

for Class XII Passed Student

**ABHYAAS COURSE**  
MODE: OFFLINE / ONLINE

CLASS STARTS  
10<sup>th</sup> & 24<sup>th</sup> April

**SCHOLARSHIP ON THE BASIS OF JEE (MAIN) 2023 %ILE / AIR**

**Resonance Eduventures Limited**

REGISTERED & CORPORATE OFFICE: CG Tower, A-46 & 52, IPHA, Near City Mall, Jhalawar Road, Kota (Rajasthan) - 324005  
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