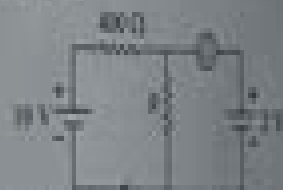


1. The work functions of Cesium (Cs), Potassium (K) and Sodium (Na) are 2.14 eV , 2.36 eV and 2.75 eV respectively. If incident electromagnetic radiation has an incident energy of 2.20 eV , which of these photoemissive surfaces may not photoemit?
- (i) Na only (ii) Cs only
(iii) Both Na and K (iv) K only

2. The net magnetic flux through any closed surface is
- (i) Negative (ii) Zero
(iii) Positive (iv) Infinity

3. If the galvanometer G does not show any deflection in the circuit shown, the value of X is given by



- (i) 40Ω (ii) 20Ω
(iii) 10Ω (iv) 80Ω

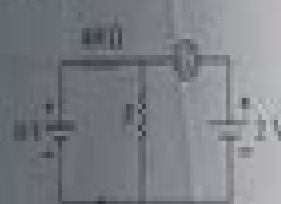
4. A 12 V , 60 W lamp is connected to the secondary of a step down transformer, when primary is connected to an source of 220 V . Assuming the transformer to be ideal, what is the current in the primary winding?
- (i) 0.27 A (ii) 0.27 A
(iii) 2.7 A (iv) 3.7 A

5. A full wave rectifier circuit consists of two p-n junction diodes, a centre-tapped transformer capacitor and a load resistance. Which of these components removes the AC ripple from the rectified output?
- (i) Load resistance
(ii) A centre-tapped transformer
(iii) p-n junction diodes
(iv) Capacitor

6. A metal wire has mass $(8.4 \pm 0.02)\text{ g}$, radius $(0.3 \pm 0.003)\text{ cm}$ and length $(5 \pm 0.05)\text{ cm}$. The maximum possible percentage error in the measurement of density will nearly be
- (i) 1.4% (ii) 1.2%
(iii) 1.3% (iv) 1.6%

7. Light travels a distance x in time t_1 in air and t_2 in time t_2 in another denser medium. What is the critical angle for this medium?
- (i) $\sin^{-1}\left(\frac{t_2}{t_1}\right)$ (ii) $\sin^{-1}\left(\frac{t_1}{t_2}\right)$
(iii) $\sin^{-1}\left(\frac{t_2}{t_1}\right)$ (iv) $\sin^{-1}\left(\frac{t_1}{t_2}\right)$

8. An electric dipole is placed at an angle of 30° with an electric field of intensity $2 \times 10^4\text{ N/C}$. It experiences a torque equal to 4 Nm . Calculate the magnitude of charge on the dipole, if the dipole length is 2 cm .
- (i) 2 mC (ii) 4 mC
(iii) 4 mC (iv) 4 mC



- (i) 40Ω (ii) 20Ω
(iii) 10Ω (iv) 80Ω

9. A 12 V , 60 W lamp is connected to the secondary of a step down transformer, when primary is connected to an source of 220 V . Assuming the transformer to be ideal, what is the current in the primary winding?
- (i) 0.27 A (ii) 0.27 A
(iii) 2.7 A (iv) 3.7 A

10. A full wave rectifier circuit consists of two p-n junction diodes, a centre-tapped transformer capacitor and a load resistance. Which of these components removes the AC ripple from the rectified output?
- (i) Load resistance
(ii) A centre-tapped transformer
(iii) p-n junction diodes
(iv) Capacitor

11. A metal wire has mass $(8.4 \pm 0.02)\text{ g}$, radius $(0.3 \pm 0.003)\text{ cm}$ and length $(5 \pm 0.05)\text{ cm}$. The maximum possible percentage error in the measurement of density will nearly be
- (i) 1.4% (ii) 1.2%
(iii) 1.3% (iv) 1.6%

12. Light travels a distance x in time t_1 in air and t_2 in time t_2 in another denser medium. What is the critical angle for this medium?
- (i) $\sin^{-1}\left(\frac{t_2}{t_1}\right)$ (ii) $\sin^{-1}\left(\frac{t_1}{t_2}\right)$
(iii) $\sin^{-1}\left(\frac{t_2}{t_1}\right)$ (iv) $\sin^{-1}\left(\frac{t_1}{t_2}\right)$

13. An electric dipole is placed at an angle of 30° with an electric field of intensity $2 \times 10^4\text{ N/C}$. It experiences a torque equal to 4 Nm . Calculate the magnitude of charge on the dipole, if the dipole length is 2 cm .
- (i) 2 mC (ii) 4 mC
(iii) 4 mC (iv) 4 mC

14. An electric dipole is placed at an angle of 30° with an electric field of intensity $2 \times 10^4\text{ N/C}$. It experiences a torque equal to 4 Nm . Calculate the magnitude of charge on the dipole, if the dipole length is 2 cm .
- (i) 2 mC (ii) 4 mC
(iii) 4 mC (iv) 4 mC

15. Let a wire be suspended from the ceiling (rigid support) and stretched by a weight W attached at its free end. The longitudinal stress at any point of cross-sectional area A of the wire is
- (i) $2W/A$ (ii) W/A
(iii) W/A (iv) $W/2A$

16. In hydrogen spectrum, the shortest wavelength in the Balmer series is λ . The shortest wavelength in the Bracket series is
- (i) 16λ (ii) 2λ
(iii) 4λ (iv) 9λ

17. The temperature of a gas is -10°C . To what temperature the gas should be heated so that the rms speed is increased by 3 times?

18. A metal wire has mass $(8.4 \pm 0.02)\text{ g}$, radius $(0.3 \pm 0.003)\text{ cm}$ and length $(5 \pm 0.05)\text{ cm}$. The maximum possible percentage error in the measurement of density will nearly be
- (i) 1.4% (ii) 1.2%
(iii) 1.3% (iv) 1.6%

19. Light travels a distance x in time t_1 in air and t_2 in time t_2 in another denser medium. What is the critical angle for this medium?
- (i) $\sin^{-1}\left(\frac{t_2}{t_1}\right)$ (ii) $\sin^{-1}\left(\frac{t_1}{t_2}\right)$
(iii) $\sin^{-1}\left(\frac{t_2}{t_1}\right)$ (iv) $\sin^{-1}\left(\frac{t_1}{t_2}\right)$

20. An electric dipole is placed at an angle of 30° with an electric field of intensity $2 \times 10^4\text{ N/C}$. It experiences a torque equal to 4 Nm . Calculate the magnitude of charge on the dipole, if the dipole length is 2 cm .
- (i) 2 mC (ii) 4 mC
(iii) 4 mC (iv) 4 mC

21. An electric dipole is placed at an angle of 30° with an electric field of intensity $2 \times 10^4\text{ N/C}$. It experiences a torque equal to 4 Nm . Calculate the magnitude of charge on the dipole, if the dipole length is 2 cm .
- (i) 2 mC (ii) 4 mC
(iii) 4 mC (iv) 4 mC

22. Let a wire be suspended from the ceiling (rigid support) and stretched by a weight W attached at its free end. The longitudinal stress at any point of cross-sectional area A of the wire is
- (i) $2W/A$ (ii) W/A
(iii) W/A (iv) $W/2A$

23. In hydrogen spectrum, the shortest wavelength in the Balmer series is λ . The shortest wavelength in the Bracket series is
- (i) 16λ (ii) 2λ
(iii) 4λ (iv) 9λ

24. The temperature of a gas is -10°C . To what temperature the gas should be heated so that the rms speed is increased by 3 times?
- (i) 770°C (ii) 440°C

May 2013 Gececonomics Paper

**Thirumalaisamy P.
Velavancorresponding**



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Table of Contents May 2013 6ececonomics Paper

1. Understanding the eBook May 2013 6ececonomics Paper
 - The Rise of Digital Reading May 2013 6ececonomics Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying May 2013 6ececonomics Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an May 2013 6ececonomics Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 2013 6ececonomics Paper
 - Personalized Recommendations

- May 2013 6economics Paper User Reviews and Ratings
- May 2013 6economics Paper and Bestseller Lists
- 5. Accessing May 2013 6economics Paper Free and Paid eBooks
 - May 2013 6economics Paper Public Domain eBooks
 - May 2013 6economics Paper eBook Subscription Services
 - May 2013 6economics Paper Budget-Friendly Options
- 6. Navigating May 2013 6economics Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - May 2013 6economics Paper Compatibility with Devices
 - May 2013 6economics Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May 2013 6economics Paper
 - Highlighting and Note-Taking May 2013 6economics Paper
 - Interactive Elements May 2013 6economics Paper
- 8. Staying Engaged with May 2013 6economics Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 2013 6economics Paper
- 9. Balancing eBooks and Physical Books May 2013 6economics Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 2013 6economics Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine May 2013 6economics Paper
 - Setting Reading Goals May 2013 6economics Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of May 2013 6economics Paper
 - Fact-Checking eBook Content of May 2013 6economics Paper

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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