



ଓଡ଼ିଶା ସରକାର

ମାନ୍ୟବର ମୁଖ୍ୟମନ୍ତ୍ରୀ

ଶ୍ରୀପୁଣ୍ଡିତ ନବୀନ ପଣ୍ଡିତାୟକଙ୍କ

ନୂଆପଡ଼ା ଜିଲ୍ଲା ଗ୍ର୍ର ଅବସରରେ
୨୩୭.୩୪ କୋଟି ଟଙ୍କାର ଟଣି ପ୍ରକଳ୍ପ
ଉଦ୍ୟାଚନ ଓ ଉତ୍ତିପ୍ରସର ସ୍ଥାପନ

୨୫ ଫେବୃଆରୀ ୨୦୧୯ • ସୋମବାର

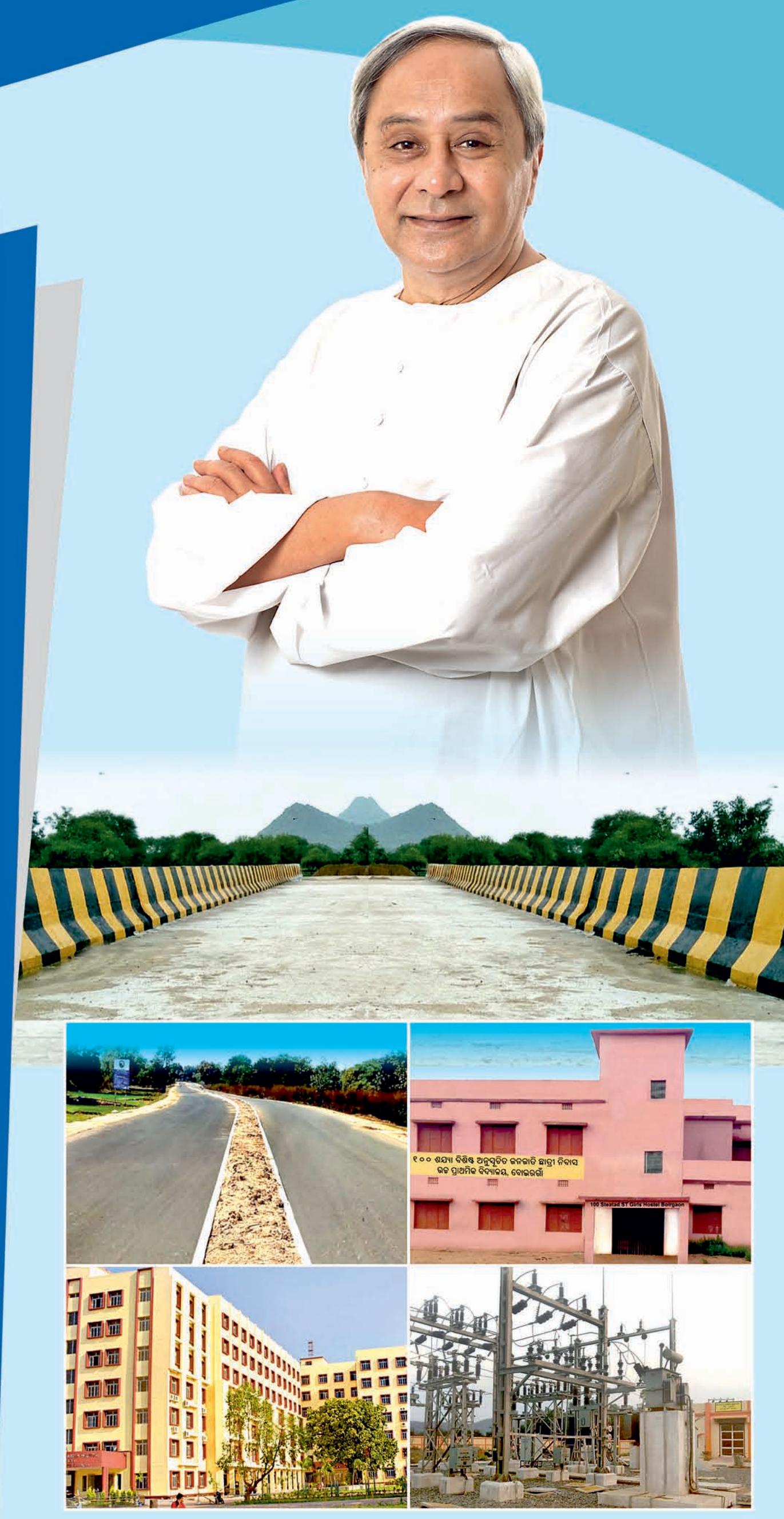
ଗୋଟମା, ନୂଆପଡ଼ା
ପୂର୍ବାହ୍ନ ୧୧.୩୦

୧୩୭ କୋଟିରୁ ଉତ୍ତିପ୍ରସର ପ୍ରକଳ୍ପ ଶୁଭ ଉଦ୍ୟାଚନ

- ଖରିଆର - ବୋଡେନ - ସିନାପାଲି ରାଷ୍ଟ୍ରା, ଗଣ୍ଡାବାହାଲି - ଫ୍ରାନ୍ତିରା - ବୋଡେନ ରାଷ୍ଟ୍ରା ଏବଂ କୋମନା - କାଣ୍ଡେତରା ରାଷ୍ଟ୍ରାର ନୂଆଗାଁ ନାଳ ଉପରେ ନିର୍ମିତ ଣଟି ହାଇଲେଭ୍ଲେ ସେତୁ
- ନବନିର୍ମିତ ନୂଆପଡ଼ା ଜିଲ୍ଲା ମୁଖ୍ୟ ଚିକିତ୍ସାଳୟ
- ସାଇପଲା - ନୂଆପଡ଼ା ବିକ୍ରେ ଏକ୍ସପ୍ରେସ୍ ଟ୍ରେ ଏବଂ ରାଜ୍ୟ ରାଜପଥ ଗ - ଜୁନାନି ରାଷ୍ଟ୍ରା
- ନୂଆପଡ଼ା ବୁଲର ସାଇପଲା ଏବଂ ଖରିଆର ବୁଲର ବାଦି ୩୩/୧୧ କେବି ସବସ୍ତେସନ୍
- କୋମନା, ନୂଆପଡ଼ା, ବୋଡେନ ଏବଂ ସିନାପାଲି ବୁଲର ୮୮ ୧୦୦ ସିର୍ ବିଶିଷ୍ଟ ଚୁତ୍ରୀନିବାସ ଏବଂ ଣଟି ଚୁତ୍ରାବାସ
- କୋମନା ଏବଂ ନୂଆପଡ଼ା ବୁଲର ୨୦୦ ସିର୍ ବିଶିଷ୍ଟ ୨୮ ଅନୁସୂଚିତ ଜନଜାତି ଚୁତ୍ରାବାସ
- ନବନିର୍ମିତ ନୂଆପଡ଼ା ପର୍ୟନ୍ତ କାର୍ଯ୍ୟାଳୟ
- ସିନାପାଲି ଏବଂ କୋମନା ବୁଲର ୪୮ ଜଳଯୋଗାଣ ପ୍ରକଳ୍ପ ଏବଂ ଅନ୍ୟାନ୍ୟ ପ୍ରକଳ୍ପ

୧୦୪ କୋଟିରୁ ଉତ୍ତିପ୍ରସର ପ୍ରକଳ୍ପ ଉତ୍ତିପ୍ରସର ସ୍ଥାପନ

- ବୋଡେନ, ନୂଆପଡ଼ା ଏବଂ କୋମନା ବୁଲର ୨୮ ସତକ ନିର୍ମାଣ ପ୍ରକଳ୍ପ
- ନୂଆପଡ଼ା, ବୋଡେନ ଏବଂ ଖରିଆର ବୁଲର ୨୮ ହାଇଲେଭ୍ଲେ ସେତୁ ପ୍ରକଳ୍ପ
- ନୂଆପଡ଼ା ଜିଲ୍ଲା ଲାଇଟ୍ରେନ୍ ଏବଂ କୋମନା ବୁଲର ମେଣ୍ଟାଲ୍ ହାଇସ୍ପୁଲ ନିର୍ମାଣ
- ସିନାପାଲି ବୁଲର ତାଳକୋଟ, ମହେଶୁର ଏବଂ ଆଖପାଖ ଅଞ୍ଚଳ ପାଇଁ ମେଗା ପାଇୟ ଜଳଯୋଗାଣ ପ୍ରକଳ୍ପ
- ସିନାପାଲି ବୁଲର ଲିଟିଗ୍ରେଡ଼ା କ୍ଷୁଦ୍ର ଜଳସେବନ ପ୍ରକଳ୍ପ



କୃଷ୍ଣ ଜଳ ଉତ୍ସୁକ ସବଳ ଉତ୍ସୁକ



ପିଲାଙ୍କ ଉତ୍ସୁକ ଉତ୍ସୁକ

ସହାୟତା ପାଇୟବା ନୂଆପଡ଼ା ଜିଲ୍ଲାର
ଗୁରୁତ୍ବକାରୀ ସହ ଭାବିନିମୟ



ମିଶନ ଶକ୍ତିରେ ସାମିଲ ହୋଇଥିବା ସ୍ଵର୍ଗ ସହାୟକ ଗୋଷ୍ଠୀମାନଙ୍କୁ
ସିଦ୍ଧ ମନୀ, ଡିଜିଟାଲ ସଶକ୍ତିକରଣ ସହାୟତା ଏବଂ ବୁଲର ପ୍ରକଳ୍ପ
ମହାଦ୍ୱାରା ଆର୍ଥିକ ସହାୟତା ପ୍ରଦାନ



ଜିଲ୍ଲାର ନିର୍ମାଣ ଶ୍ରମିକ ମାନଙ୍କୁ
ବୋର୍ଡ ଦ୍ୱାରା ଦିଆଯାଉଥିବା
ବିଭିନ୍ନ ସହାୟତା ପ୍ରଦାନ



ଭୂମିହୀନ ବସ୍ତିବାସିଯାଙ୍କ ଭୂମି
ଅଧିକାର ପ୍ରମାଣ ପତ୍ର ପ୍ରଦାନ



ପିଆର୍ଯ୍ୟ ବିବାଦକୁ ନେଇ କର୍ତ୍ତ୍ତୁ ଜାରି ଅଭୂତାଚଳରେ ଅଟଳାବସ୍ତୁ

ଜାନନଗର, ୨୪୧ (ମିତ୍ର)



ଆସାମରେ ଏମଥାର୍ଯ୍ୟ ବିଭିନ୍ନ ପରେ
ଅଭୂତାଚଳରେ ପିଆର୍ଯ୍ୟ ବିବାଦ।
କେତେକ ନିର୍ଦ୍ଦିଷ୍ଟ ଆଦିବାସୀ ସମ୍ବାଦପ୍ରତି (ପିଆର୍ଯ୍ୟ)
ଦିଆଯିବା ପ୍ରତିବାଦରେ ସ୍ଥାନର
ଲୋକେ ରାଜାରୁକୁ ଝାଲାଇଛନ୍ତି।
ପ୍ରାକ୍ରିତ୍ରମାନେ ଦିନି ପ୍ରାନରେ
ଜାଗାରୁକା ଓ ଜାଗାପୋଡ଼ା କରି ଆହନ
ହତକୁ ନେଇଛନ୍ତି। ଅଭୂତାଚଳ ପ୍ରଦେଶ
ରାଜାମାଜଗନରରେ ଉରେଜନାପୂର୍ଣ୍ଣ
ପ୍ରତି ଲାଗିଛନ୍ତି। ପ୍ରତିକୁ ନିଯନ୍ତ୍ରଣ

ଉତ୍ତର ଲୋକେ ଉପମୁଖ୍ୟମନ୍ତ୍ରାଙ୍କ ଘରେ ନିଆଁ ଲାଗାଇ ଦେଇଛନ୍ତି।

କରିବା ପାଇଁ ସେନା ଏବଂ ଆରଟିପି

ସମ୍ବାଦ ପ୍ରତିବାଦରେ କରାଯାଇଛନ୍ତି।

ଉତ୍ତର-ପୂର୍ବ ରାଜ୍ୟ ଅଭୂତାଚଳର

ନାମସାଇ ଓ ଚାନାଜାଙ୍ଗ ଜିଲ୍ଲାରେ

ବିବାଦର କୁରୁଥାର ପାଇଁ ସମ୍ବାଦପ୍ରତି (ପିଆର୍ଯ୍ୟ)

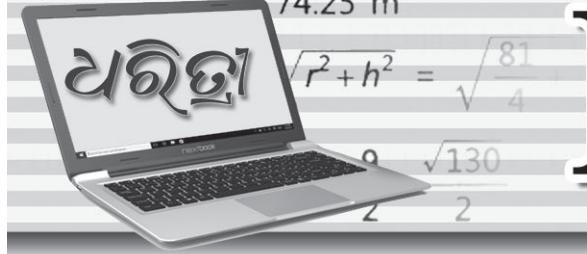
ପ୍ରଦାନ ପାଇଁ ସ୍ଥାନ ଉତ୍ତରପାଇଁ କରିଛନ୍ତି।

ଅଭୂତାଚଳ ସମ୍ବାଦର ସ୍ଥାନରେ କରିଛନ୍ତି।

ଏହାକୁ ଶୁଣିବା ନ କରିବା ପାଇଁ

ରାଜ୍ୟ ସରକାର ନିର୍ଦ୍ଦେଶ କରିଛନ୍ତି।

ଏହାକୁ ଶୁଣିବା ନ କରିବାର ନ



Exam Mate

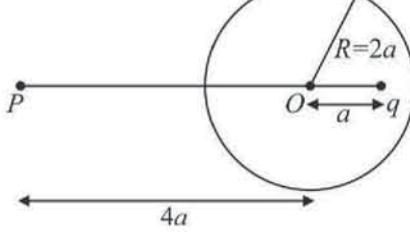


Mock Test Paper for Std X, XII CBSE Board, IIT - JEE Main & Advanced.

FOR ANSWERS VISIT : www.dharitri.com

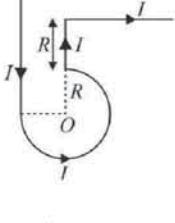
SINGLE CORRECT ANSWER

1. A point charge 'q' is placed at distance 'a' from the centre of an uncharged thin spherical conducting shell of radius $R = 2a$. A point 'P' is located at a distance '4a' from the centre of the conducting shell as shown. The electric potential due to induced charge on the inner surface of the conducting shell at point 'P' is:



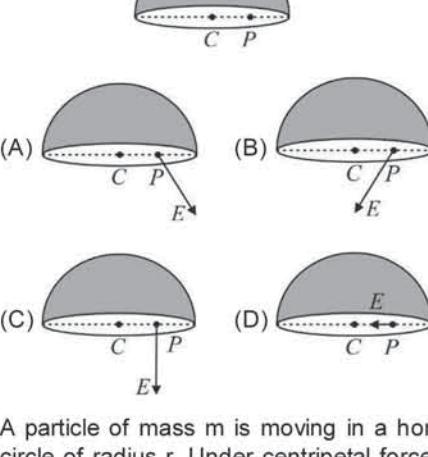
- (A) $\frac{kq}{5a}$ (B) $-\frac{kq}{5a}$
(C) $\frac{kq}{4a}$ (D) $-\frac{kq}{4a}$

2. A conducting wire carrying a current I is bent into the shape as shown. The net magnetic field at the centre 'O' of the circular arc of radius 'R' is:



- (A) $\frac{\mu_0 I}{2R} \left(\frac{1+3\pi}{\pi} \right)$ (B) $\frac{\mu_0 I}{4R} \left(\frac{1+3\pi}{\pi} \right)$
(C) $\frac{\mu_0 I}{8R} \left(\frac{1+3\pi}{\pi} \right)$ (D) $\frac{\mu_0 I}{8R} \left(\frac{2+3\pi}{\pi} \right)$

3. A thin non-conducting hemispherical shell contains a positive charge q on it, which is uniformly distributed on the shell. A point P lies on the diameter of shell as shown in figure. Then the direction of electric field at the point 'P' is:



4. A particle of mass m is moving in a horizontal circle of radius r. Under centripetal force equal to $\frac{-k}{r^2}$ where k is a constant. The kinetic energy of the particle is

- (A) $\frac{-k}{2r^2}$ (B) $\frac{k}{2r}$
(C) $-\frac{k}{2r}$ (D) $\frac{k}{r^2}$

5. The spherical bodies of mass M and $5M$ and radii R and $2R$ respectively are released in free space with initial separation between their centres equal to $12R$. If they attract each other due to gravitational force only then the distance covered by smaller body just before collision is

- (A) $2.5 R$ (B) $4.5 R$
(C) $7.5 R$ (D) $1.5 R$

6. A string is wrapped several times round a solid cylinder. The free end of the string is held stationary. If the cylinder is released to move down, then the acceleration of that cylinder is

- (A) $g/3$ (B) $g/2$
(C) $3g/2$ (D) $2g/3$

7. Which of the following statements is false for a particle moving in a circle with a constant angular speed?

- (A) the velocity vector is tangent to the circle
(B) the acceleration vector is tangent to the circle
(C) the acceleration vector points to the centre of the circle
(D) the velocity and acceleration points to the centre of the circle

8. A uniform rod AB of length L is hinged at one end A. The rod is kept in the horizontal position

SAMPLE PAPER # 4 IITJEE (Main) (PHYSICS)

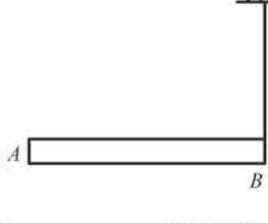
Time : 1 hour

Maximum Marks: 120

MARKING INSTRUCTIONS

For each question you will be given 4 Marks if you have darkened only the bubble corresponding to the correct answer and zero mark if no bubble is darkened. In all other cases, minus one (-1) Marks (NEGATIVE MARKING) will be given.

- by a string tied at B as shown. If the string is cut, the initial angular acceleration is

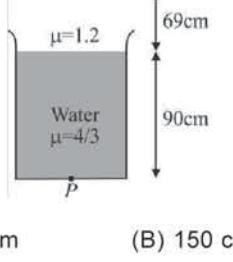


- (A) $g/2$ (B) $2g/2$
(C) $2g/3L$ (D) $3g/2L$

9. A capillary rise of liquid level is 14 cm. If the capillary tube of length 7 cm is immersed in the same liquid then the capillary rise is

- (A) 14 cm (B) 10 cm
(C) 7 cm (D) 4 cm

10. A particle lies on the bottom of a tank filled with water up to a height of 90 cm. The medium above the surface of water is of R.I. = 1.2 above which there is mirror M. Beyond the mirror M the region contains air ($\mu=1$). Find the distance of the image formed by the mirror after reflection of the rays coming from P. (w.r.t. mirror)



- (A) 120 cm (B) 150 cm
(C) 100 cm (D) 200 cm

11. A clock 'S' is based on the oscillation of a spring and a clock 'P' is based on motion of the pendulum. Both clocks run at the same rate on the earth. On a planet having same density as earth, but twice the radius

- (A) S will run faster than P
(B) P will run faster than S
(C) they will both run at the same rate as on the earth
(D) none of these

12. When an ideal diatomic gas is heated at constant pressure, the fraction of heat energy supplied which increases the internal energy of gas is

- (A) 2/5 (B) 3/5
(C) 3/7 (D) 5/7

13. $\Delta V = iR$ (where ΔV is potential difference, i is current and R is resistance) is valid

- (A) only for ohmic conductors
(B) only for non-ohmic conductors
(C) any type of conductors
(D) any type of object

14. A conducting ring of radius 1m is placed in a magnetic field of 0.01T oscillating with a frequency 100Hz with its plane at right angle to B. The induced electric field will be

- (A) 7 Vm^{-1} (B) 2 Vm^{-1}
(C) 10 Vm^{-1} (D) 62 Vm^{-1}

15. The ground state energy of hydrogen atom is -13.6 eV . The potential energy of electron in this state is

- (A) 0 eV (B) -27.2 eV
(C) -6.8 eV (D) -4.2 eV

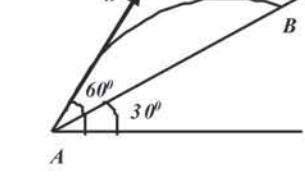
16. A photocell is illuminated by a small bright source placed 1m away. When the same source of light is placed 0.5 m away, the number of electrons emitted by the photo cathode would

- (A) decrease by a factor of 4
(B) increase by a factor of 4
(C) decrease by a factor of 2
(D) increase by a factor of 2

17. How many times more intense is 90 dB sound than 40 dB sound

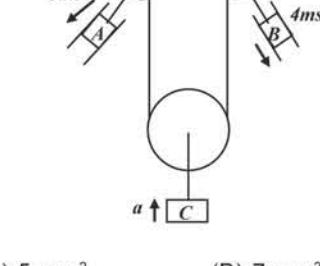
- (C) the input signal is connected in parallel with the voltage applied to bias the base emitter junction
(D) the input signal is connected in series with the voltage applied to bias the base collector junction.

25. Time taken by the projectile to reach from A to B is t. Then the distance AB is equal to



- (A) $\frac{ut}{\sqrt{3}}$ (B) $\frac{\sqrt{3}}{2}ut$
(C) $\sqrt{3}ut$ (D) $2ut$

26. Assuming all surfaces to be frictionless, acceleration of the block C shown in figure is

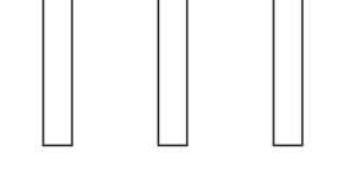


- (A) 5 ms^{-2} (B) 7 ms^{-2}
(C) 3.5 ms^{-2} (D) 4 ms^{-2}

27. A rod of length l is given two velocities v_1 and v_2 in opposite directions at its two ends at right angles to the length. The distance of the instantaneous axis of rotation from v_1 is

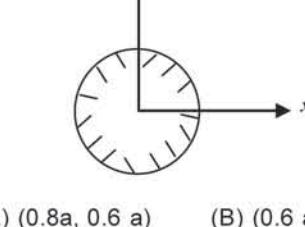
- (A) zero (B) $\frac{v_1 + v_2}{l}$
(C) $\frac{v_2 l}{v_1 + v_2}$ (D) $\frac{l}{2}$

28. Three identical metallic plates with large surface areas are kept parallel to each other as shown in the figure. The left most plate is given a charge Q, the right most a charge $-2Q$ and middle one remains neutral. Find the charge appearing on outer surface of right most plate



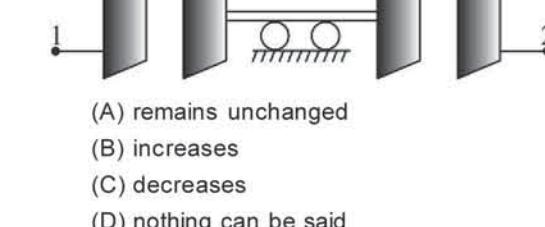
- (A) $Q/2$ (B) $3Q/4$
(C) $-Q/2$ (D) zero

29. A reflecting surface is represented by the equation $x^2 + y^2 = a^2$. A ray traveling in negative x-direction is directed towards positive y-direction after reflection from the surface at point P. The coordinates of point P are



- (A) $(0.8a, 0.6a)$ (B) $(0.6a, 0.8a)$
(C) $(a, 10)$ (D) none of these

30. A, B, C, D are large conducting plates kept parallel to each other. A and D are fixed. Plates B and C, connected to each other by a rigid conducting rod can slide over frictionless rails as shown. Initially the distance between plates A and B is same as that between plates C and D. If now the rod (along with plates B and C) is slightly moved towards right, the capacitance between the terminals 1 and 2:



- (A) remains unchanged
(B) increases
(C) decreases
(D) nothing can be said

For Answers Key visit: www.dharitri.com

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