General Certificate of Education (Advanced Level) Examination - March 2021

## Grade 13

## PHYSICS 1



TIME : TWO HOURS

$$
\mathrm{g}=10 \mathrm{Nkg}^{-1}
$$

(1) Dimensions of permeability is, (Dimensions of electric current is I )

1) $\mathrm{ML}^{2} \mathrm{~T}^{-2} \mathrm{I}^{-1}$
2) $\mathrm{ML}^{2} \mathrm{~T}^{-1} \mathrm{I}^{-2}$
3) $\mathrm{ML}^{2} \mathrm{~T}^{-2} \mathrm{I}^{-2}$
4) $\mathrm{MLT}^{-2} \mathrm{I}^{-2}$
5) $\mathrm{MLT}^{-1} \mathrm{I}^{-2}$
(2) Thermal conductivity of a substance is 400 in SI unit system. What is the value in cm (length) g (mass) and s (time) unit system where temperature is measured in K ?
6) 40
7) $4 \times 10^{2}$
8) $4 \times 10^{3}$
9) $4 \times 10^{5}$
10) $4 \times 10^{7}$
(3) Which of the following graphs depict the variation of average kinetic energy of ideal gas molecules (E) with absolute temperature (T)?

(1)

(2)

(3)

(4)

(5)
(4) Three particles A, B, C are projected at equal V velocity at $15^{\circ}, 45^{\circ}, 75^{\circ}$ angles to the horizontal, from the same point. Horizontal ranges of the 3 particles A, B, C are $S_{A}, S_{B}$ and $S_{C}$ and the maximum heights they ascend are $H_{A}, H_{B}$ and $H_{C}$ respectively. Which of the following expressions are true? ( Neglect any effects due to air resistance)
11) $\mathrm{S}_{\mathrm{A}}=\mathrm{S}_{\mathrm{C}}<\mathrm{S}_{\mathrm{B}}$ and $\mathrm{H}_{\mathrm{A}}>\mathrm{H}_{\mathrm{B}}>\mathrm{H}_{\mathrm{C}}$
12) $\mathrm{S}_{\mathrm{A}}=\mathrm{S}_{\mathrm{C}}>\mathrm{S}_{\mathrm{B}}$ and $\mathrm{H}_{\mathrm{A}}=\mathrm{H}_{\mathrm{C}}>\mathrm{H}_{\mathrm{B}}$
13) $\mathrm{S}_{\mathrm{A}}>\mathrm{S}_{\mathrm{B}}>\mathrm{S}_{\mathrm{C}}$ and $\mathrm{H}_{\mathrm{A}}>\mathrm{H}_{\mathrm{B}}>\mathrm{H}_{\mathrm{C}}$
14) $\mathrm{S}_{\mathrm{A}}>\mathrm{S}_{\mathrm{B}}>\mathrm{S}_{\mathrm{C}}$ and $\mathrm{H}_{\mathrm{A}}=\mathrm{H}_{\mathrm{C}}>\mathrm{H}_{\mathrm{B}}$
15) $\mathrm{S}_{\mathrm{A}}=\mathrm{S}_{\mathrm{C}}<\mathrm{S}_{\mathrm{B}}$ and $\mathrm{H}_{\mathrm{A}}<\mathrm{H}_{\mathrm{B}}<\mathrm{H}_{\mathrm{C}}$
(5) The following electromagnetic rays when arranged in their ascending order of frequency:
A - X ray
B - Light ray
C - Radio waves
D - Microwaves
16) $B A C D$
17) $C B D A$
18) $A B D C$
19) CD B A
20) D A C B
(6) A particle undergoes simple harmonic motion at 40 cm amplitude and 24 s time period. The time it takes to displace 20 cm from the equilibrium position is ;
21) 1 s
22) 2 s
23) 4 s
24) 5 s
25) 6 s
(7) The engine of an automobile generated an intensity level I at a certain point $O$ some distance away. To increase the level of intensity of O by 10 dB , how many such engines are to be functioning together?
26) 2
27) 5
28) 10
29) 20
30) 40
(8) A closed resonance tube of length 40 cm resonates at its' fundamental mode with an open resonance tube of length $L$ also at its' fundamental mode. (Neglect the end corrections of the tube)
L is equal to;
31) 20 cm
32) 40 cm
33) 60 cm
34) 80 cm
35) 100 cm
(9)

An object of mass 250 g is released (from rest) from A. The Path AB is smooth, and BC is rough. The ball moves along AB and enters path BC . Coefficient of dynamic friction between the object and BC path is 0.2 . What is the energy possessed by the object at x ?

1) 4.0 J
2) 9.5 J
3) 12.0 J
4) 26.0 J
5) zero

(10) A lake is frozen on the top at $-20^{\circ} \mathrm{C}$ atmospheric temperature. The temperature of water in contact with the bottom surface of the layer of ice: $\theta_{1}$. Temperature of the bottom most layer of water in the lake: $\theta_{2}$. Which of the following is true?
6) $\theta_{1}=273 \mathrm{~K}$ and $\theta_{2}=277 \mathrm{~K}$
7) $\theta_{1}=253 \mathrm{~K}$ and $\theta_{2}=273 \mathrm{~K}$
8) The temperature from the bottom surface of ice to the bottom of the lake is 277 K
9) The temperature from the bottom surface of ice to the bottom of the lake is 273 K
10) The temperature from the bottom surface of ice to the bottom of the lake is 253 K
(11) The bottom of a tank consists of a glass cube of height 8 cm and refractive index 1.6. On the glass there is a layer of oil 4.5 cm deep. A layer of water of height 6 cm floats on the oil layer. A person who looks vertically down at the bottom of the tank, sees the bottom elevated 6 cm . Refractive index of oil is; (Refractive index of water $=4 / 3$ )
11) 0.8
12) 1.2
13) 1.5
14) 1.8
15) 2.0
(12) A certain volume of saturated air is trapped in a cylinder at $8^{\circ} \mathrm{C}$ at 760 Hgmm (The moisture contained in air is just sufficient to saturate it) Saturated vapour pressure at $8^{\circ} \mathrm{C}$ is 8 Hgmm . Which of the following statement/s is/are true? At constant temperature, when ;
A. Volume is halved pressure becomes 1512 Hgmm
B. Volume is doubled pressure becomes 384 Hgmm
C. Volume is halved pressure becomes 1528 Hgmm
D. Volume is doubled pressure becomes 380 Hgmm
16) $A$ and $B$
17) $A$ and $D$
18) $B$ and $C$
19) $A$ only
20) D only
(13) Principal heat capacities of a certain gas are $178 \mathrm{~J} \mathrm{~kg}^{-1} \mathrm{~K}^{-1}$ and $249 \mathrm{~J} \mathrm{~kg}^{-1} \mathrm{~K}^{-1}$. Which of the following statement/s is/are correct ?
A. $C_{V}=249 \mathrm{Jkg}^{-1} \mathrm{~K}^{-1}$ and $\mathrm{C}_{\mathrm{P}}=178 \mathrm{Jkg}^{-1} \mathrm{~K}^{-1}$
B. $\mathrm{C}_{\mathrm{P}}=249 \mathrm{Jkg}^{-1} \mathrm{~K}^{-1}$ and $\mathrm{C}_{\mathrm{V}}=178 \mathrm{Jkg}^{-1} \mathrm{~K}^{-1}$
C. $\gamma=1.4$
D. $\gamma=0.715$
21) $A$ and $C$
22) $A$ and $D$
23) $B$ and $C$
24) $B$ and $D$
25) B only
(14) The pressure of an ideal gas is quadrupled (x4) under constant volume. Its' root mean square velocity changes by a factor of :
26) 4
27) 2
28) $1 / 4$
29) $1 / 2$
30) 1
(15) Which of the following seismic waves move through earth's interior?
A - Primary waves
B - Love waves
C - Rayleigh waves
D - Secondary waves
31) $A$ and $B$
32) $B$ and $C$
33) $C$ and $D$
34) $A$ and $C$
35) A and D
(16) A prism of prism angle $60^{\circ}$ produces an angle of minimum deviation $30^{\circ}$. The refractive index of the prism material is;
36) 1.40
37) $\sqrt{ } 2$
38) 1.50
39) $\sqrt{3}$
40) 1.68
(17) Two sources (A \& B ) placed at a certain distance emit sound waves of wave length $\lambda$. Beat frequency observed by a person walking from $A$ to $B$ with uniform velocity $u$ is ,
41) $\frac{u}{\lambda}$
42) $\frac{u}{2 \lambda}$
43) $\frac{u}{3 \lambda}$
44) $\frac{2 u}{\lambda}$
45) $\frac{2 u}{3 \lambda}$
(18) 16 g of Oxygen and 14 g of Nitrogen are mixed in a closed container of volume $5000 \mathrm{~cm}^{3}$ at 300 K temperature. The total pressure of this mixture of gases is about. (molar masses of Oxygen and Nitrogen $32 \mathrm{~g}, 28 \mathrm{~g}$ respectively, $\mathrm{R}=8.35 \mathrm{JK}^{-1} \mathrm{~mol}^{-1}$ )
46) $5 \times 10^{5} \mathrm{~Pa}$
47) $4 \times 10^{5} \mathrm{~Pa}$
48) $3 \times 10^{5} \mathrm{~Pa}$
49) $2 \times 10^{5} \mathrm{~Pa}$
50) $1.2 \times 10^{5} \mathrm{~Pa}$
(19) Which is the correct displacement velocity ( $\mathrm{S}-\mathrm{V}$ ) graph for the motion of an object. Which starts from rest and accelerates uniformly long the direction of motion?

(1)

(2)

(3)

(4)

(5)
(20) Volume of a certain gas sample at $30^{\circ} \mathrm{C}$ temperature and atmospheric pressure is $100 \mathrm{~cm}^{3}$. Then its' volume is doubled at constant pressure by heating up to ,
51) $606^{\circ} \mathrm{C}$
52) $333^{\circ} \mathrm{C}$
53) $100^{\circ} \mathrm{C}$
54) $60^{\circ} \mathrm{C}$
55) $15^{0} \mathrm{C}$
(21) A sonometer wire with 4 kg mass suspended at its' free end, vibrates at 256 Hz in its' fundamental mode. What mass would double the frequency of its' fundamental mode?
56) 24 kg
57) 16 kg
58) 12 kg
59) 10 kg
60) 8 kg
(22) An erroneous thermometer reads its' lower fixed point at $-2^{\circ} \mathrm{C}$ and upper fixed point at $96^{\circ} \mathrm{C}$. A real temperature of $50^{\circ} \mathrm{C}$, as read by this erroneous temperature scale,
61) $37^{\circ} \mathrm{C}$
62) $40^{\circ} \mathrm{C}$
63) $42^{\circ} \mathrm{C}$
64) $47^{\circ} \mathrm{C}$
65) $50^{\circ} \mathrm{C}$
(23) A metal sphere of linear expansivity $1 \times 10^{-5} \mathrm{~K}^{-1}$ increases its' temperature by $100^{\circ} \mathrm{C}$ while being rotated about an axis through its' center. The percentage increase of its' moment of inertia is,
66) $0.002 \%$
67) $0.020 \%$
68) $0.100 \%$
69) $0.200 \%$
70) $0.500 \%$
(24) A real object of height 6 cm is placed at 30 cm distance from a convex lens. Its' image is formed at 60 cm distance from the object on the same side of the lens. The focal length of the lens is,
71) 20.0 cm
72) 22.5 cm
73) 45.0 cm
74) 50.0 cm
75) 90.0 cm
(25) A motor of power output 2000 kW draws water from a 20 m deep well and then pumps it at $5 \mathrm{~m}^{3} \mathrm{~s}^{-1}$ rate into a tank. Density of water $1000 \mathrm{kgm}^{-3}$. With what speed, water being pumped to the tank?
76) $10 \mathrm{~ms}^{-1}$
77) $20 \mathrm{~ms}^{-1}$
78) $26 \mathrm{~ms}^{-1}$
79) $32 \mathrm{~ms}^{-1}$
80) $80 \mathrm{~ms}^{-1}$
(26) A wave of frequency 120 Hz produces a phase difference of $6 \pi$ rad between two points on its' path at 9 m separation. The speed of the wave is,
81) $180 \mathrm{~ms}^{-1}$
82) $240 \mathrm{~ms}^{-1}$
83) $360 \mathrm{~ms}^{-1}$
84) $480 \mathrm{~ms}^{-1}$
85) $720 \mathrm{~ms}^{-1}$
(27) A solid cylinder (A) of radius $r$ and length $2 r$ and a hemisphere (B) of radius $r$ are made of the same material. They are heated to the same temperature and allowed to cool under similar environmental conditions. The rates of heat loss are $\mathrm{H}_{1}$ and $\mathrm{H}_{2}$ and the rates of temperature decrease $X_{1}$ and $X_{2}$ respectively. Which of the following expression is true?
86) $\frac{H_{1}}{H_{2}}=\frac{2}{1} \quad$ and $\quad \frac{X_{1}}{X_{2}}=\frac{2}{3}$
87) $\frac{H_{1}}{H_{2}}=\frac{2}{3} \quad$ and $\quad \frac{X_{1}}{X_{2}}=\frac{1}{4}$
88) $\frac{H_{1}}{H_{2}}=\frac{5}{3} \quad$ and $\quad \frac{X_{1}}{X_{2}}=\frac{3}{4}$
89) $\frac{H_{1}}{H_{2}}=\frac{5}{9}$ and $\frac{X_{1}}{X_{2}}=\frac{3}{5}$
90) $\frac{H_{1}}{H_{2}}=\frac{5}{9} \quad$ and $\quad \frac{X_{1}}{X_{2}}=\frac{5}{3}$
(28) The apparent weight loss of a solid object when completely immersed in a liquid at $0^{0} \mathrm{C}$ is $\omega_{0}$. When the liquid is heated to $\mathrm{t}^{0} \mathrm{C}$ its' apparent weight loss is $\omega$. Volume expansivities of the solid and the liquid are $\gamma_{S}$ and $\gamma_{l}$ respectively. Which of following expressions is true? When $\gamma_{S}$ and $\gamma_{l}$ are very minute Quantities
91) $\omega=\omega_{0}\left(\gamma_{S}-\gamma_{l}\right) t$
92) $\omega=\omega_{0}\left[1+\left(\gamma_{s}-\gamma_{l}\right) t\right]$
93) $\omega=\frac{\omega_{0} t}{\gamma_{l}-\gamma_{s}}$
94) $\omega=\omega_{0}\left[1-\left(\gamma_{S}-\gamma_{l}\right) t\right]$
95) $\omega=\omega_{0}\left[1+\left(\gamma_{S}-3 \gamma_{l}\right) t\right]$
(29) Which of the following correctly depicts the relation between the object distance (u) and magnification ( m ) for real images formed by a convex lens?

(1)

(2)

(3)

(4)

(5)
(30) Shown here is an optical fiber of length $2 \sqrt{ } 3 \mathrm{~m}$, diameter $20 \mu \mathrm{~m}$ (and refractive index $\sqrt{ } 2$ ) a ray of light incidents at $45^{0}$ angle on AB face, enters the fiber. The ray exits from the opposite end of the fiber. How many reflections had it undergone by then?
96) $10^{2}$
97) $10^{3}$
98) $10^{4}$
99) $10^{5}$
100) $10^{6}$

(31) An object rotates on a circular track of radius r , on a horizontal plane at uniform angular velocity. Which of the following statement/s is/are true?
A. Velocity of the object remains a constant at the end of each second.
B. Time period is doubled if angular velocity is doubled.
C. Centripetal force decreases with the decrease in friction of the circular track
101) A only.
102) B only.
103) C only.
104) B and C only.
105) All A, B, C are true.

| $\Theta^{0} \mathrm{C}$ | 10 | 12 | 14 | 16 | 18 | 20 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{P}(\mathrm{mmHg})$ | 9.20 | 10.50 | 11.96 | 13.65 | 15.46 | 17.51 |

The table shows the variation of saturated vapour pressure with temperature. Which of the following conclusion/s based on the readings above is/are true?
A. P is directly proportional to, $\Theta$.
B. Saturated vapour pressure at $100^{\circ} \mathrm{C}$ can be gauged using above data.
C. When atmospheric temperature is at $16^{\circ} \mathrm{C}$ and dew point at $12^{\circ} \mathrm{C}$, relative humidity is about $77 \%$.

1) $A$
2) $B$
3) C
4) $A$ and $B$
5) $A$ and $C$
(33)

(34) 51 kJ of heat energy is being removed from 260 g of water at $0^{\circ} \mathrm{C}$. Specific heat capacity of fusion of ice is $3 \times 10^{5} \mathrm{Jkg}^{-1}$. The mass of liquid water left without freezing.
6) 50 g
7) 60 g
8) 70 g
9) 80 g
10) 90 g
(35) In the setup shown here, the resultant force acting upwards along the plane of inclination $30^{\circ}$ to the horizontal (on the 4 kg mass ) is zero. F is equal to,
11) 30 N
12) 90 N
13) 205 N
14) 210 N
15) 312 N

(36) A boat ridden at $72 \mathrm{kmh}^{-1}$ constant speed takes 1 minute to overtake a ship moving at $54 \mathrm{kmh}^{-1}$ ( in a parallel path towards the same direction ) in still water. The length of the ship is ,
16) 120 m
17) 210 m
18) 290 m
19) 300 m
20) 900 m
(37) Equal masses of two liquids A and B are contained in two identical calorimeters at the same temperature. They are being heated by two identical thermo coils for the same period of time.
21) Temperatures of both calorimeters are equal.
22) The liquid having greater specific heat capacity shows higher temperature.
23) The liquid having less specific heat capacity shows higher temperature.
24) The calorimeter which contains the liquid heaving greater heat capacity starts cooling at a higher rate.
25) For both calorimeters, initial rates of cooling are equal.
(38) A uniform glass tube of length 1 m is inverted and immersed into a dish of mercury. When the atmospheric pressure is 76 cmHg , mercury raised to 24 cm height in the tube. Height of the tube submerged in mercury is,
26) 50 cm
27) 48 cm
28) 45 cm
29) 36 cm
30) 30 cm
(39) The focal length of lens of a lens combination is 20 cm . The power of the other lens is -3.75 D . The power of the lens combination is positive. Focal length of this lens combination,
31) 20 cm
32) 60 cm
33) 75 cm
34) 80 cm
35) 100 cm
(40) A kettle is made of a substance having thermal conductivity $210 \mathrm{Wm}^{-1} \mathrm{~K}^{-1}$. The area and thickness of the bottom of the kettle are $300 \mathrm{~cm}^{2}$ and 2 mm respectively. The rate of vaporization of water from the kettle is $1 \mathrm{gmin}^{-1}$. The temperature difference on either side of the bottom of the kettle is,(latent heat of vapourization of water is $2.268 \times 10^{6} \mathrm{Jkg}^{-1}$ )
36) $12^{\circ} \mathrm{C}$
37) $1.2^{0} \mathrm{C}$
38) $0.12^{0} \mathrm{C}$
39) $0.012^{\circ} \mathrm{C}$
40) $0.0012^{0} \mathrm{C}$
(41) Three cylinders a , b , c of equal mass and made of different metals heated to the same temperature, and introduced to three identical insulating containers having equal volumes of water at room temperature. The graphs show the variation of temperature with time as the three systems attain the state of thermal equilibrium. The descending order of specific heat capacities of the metal cylinders in $\mathrm{a}, \mathrm{b}, \mathrm{c}$ is

(a)

(b)

(c)
41) b $>$ a $<$ c
42) $c>b>a$
43) $a>b>c$
44) $b>c>a$
45) $c>a>b$
(42) Three metal rods with identical dimensions and of thermal conductivities $K_{1}, K_{2}$ and $K_{3}$ are fastened as shown here. Temperature at the junctions $A$ and $B$ are maintained constant at $\Theta_{1}$ and $\Theta_{2}$. The rates of heat flow along the paths AB and ACB are equal. Which of the following expressions is true?
46) $K_{3}=2\left(K_{1}+K_{2}\right)$
47) $K_{3}=\frac{K_{1} K_{2}}{K_{1}+K_{2}}$
48) $\mathrm{K}_{3}=\mathrm{K}_{1}+\mathrm{K}_{2}$
49) $K_{3}=\frac{K_{1+} K_{2}}{2}$
50) $\mathrm{K}_{3}=\frac{\mathrm{K}_{1}+\mathrm{K}_{2}}{\mathrm{~K}_{1} \mathrm{~K}_{2}}$

(43) Focal lengths of the two lenses used in the telescope of a spectrometer are 10 cm and 2 cm . Focal length of the system of lenses used in its' collimator is 8 cm . Which of the following statement/s is/are true about an experiment to determine the minimum deviation through a prism?
A. Distance between the two lenses in the telescope are adjusted at 12 cm .
B. Distance between the system of lenses and the slit of the telescope is adjusted at 8 cm .
C. A monochromatic source of light is placed in front of the slit.
51) $A$ only
52) B only
53) C only
54) A and B only
55) All A, B, C

Before collision


After collision


Two objects $A$ and $B$ collide on a smooth table as shown above. $v_{1}$ given in terms of $u$ is,

1) $\frac{u}{2}$
2) $u$
3) $\frac{\sqrt{3}}{2} u$
4) $2 u$
5) $\sqrt{3} u$
(45) Figure shows a semicircular smooth container and a horizontal string AB. A particle P is released from A at $t=0$. It slides down along the surface of the container smoothly. Horizontal component of the velocity of P at A (when $\mathrm{t}=0$ ) is v . Another particle Q ( of equal mass to P ) is projected at v horizontal velocity from A simultaneously (when $t=0$ ) and it moves along $A B$ under negligible friction with the string $A B$. $P$ and $Q$ takes $t_{P}$ and $t_{Q}$ time intervals respectively to reach $B$. Which of the following expressions is correct?
6) $t_{P}<t_{Q}$
7) $t_{P}=t_{Q}$
8) $t_{P}>t_{Q}$
9) $\frac{t_{P}}{t_{Q}}=\frac{\text { length of } \operatorname{arc} A B C}{\text { length of string } A B}$

10) $\frac{t_{P}}{t_{Q}}=\frac{\text { length of arc } A B}{\text { length of string } A B C}$
(46) Which of the following expression/s is/are true?
A. Moment of force is a vector quantity.
B. Moment of a couple occurs due to two (similar or opposite ) parallel forces.
C. Closing a window is made easier by applying the force by hand, closer to the hinge.
11) $A$ only
12) B only
13) C only
14) A and B only
15) A and C only
(47) Choose the wrong statement out of the following.
16) When an object is in static equilibrium, its' center of gravity is located at a lowest position.
17) The center of gravity and center of mass of any system of objects in the universe always coincide.
18) Center of gravity of a regular object is where its' axes of symmetry intersects.
19) The center of buoyancy of an object which is being sunk and floating in water is above its' center of gravity.
20) A non-uniform rod is being balanced horizontally on a knife edge. The reaction by the knife edge is equal to the weight of the rod.
(48) A mass M is pulled by a horizontal wire of mass m on a smooth horizontal plane, by a force P applied at the free end of wire. The force by the wire on the mass,
21) zero
22) $P$
23) $\frac{M P}{M+m}$
24) $\frac{m P}{M+m}$
25) $\frac{M P}{M-m}$
(49) Which of the following condition/s is/are satisfied when an object is in equilibrium due to the action of three forces?
A. The forces are coplanar.
B. Magnitudes and directions of the three forces can be depicted by the sides of a triangle.
C. Algebraic sum of the resolved components of the three forces along any direction is zero.
26) A only
27) B only
28) $C$ only
29) A and B only
30) A and B only
(50) Shown below is a three-level energy diagram used for the production of laser. Frequency of radiation that is pumped into the above system for producing laser
31) $5 \times 10^{14} \mathrm{~Hz}$
32) $8 \times 10^{14} \mathrm{~Hz}$
33) $5 \times 10^{33} \mathrm{~Hz}$
34) $2.6 \times 10^{14} \mathrm{~Hz}$
35) $2.6 \times 10^{33} \mathrm{~Hz}$

| $\left[\mathrm{h}=6.6 \times 10^{-34} \mathrm{Js}\right.$, | $\left.1 \mathrm{ev}=1.6 \times 10^{-19} \mathrm{~J}\right)$ |
| ---: | :--- |
| $\square$ | $\mathrm{E}_{3}=-3.2 \mathrm{ev}$ |
| $\mathrm{E}_{2}=-4.3 \mathrm{ev}$ |  |
| $\mathrm{E}_{1}=-6.5 \mathrm{ev}$ |  |

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