

Marks distribution Pattern:-

Physics:-	50
Chemistry:-	50
Zoology:-	40
Botany:-	40
MAT:-	20

Date:-	2020 – 05 – 30
Time:-	3 hr.
Shift:-	Morning
Full Mark:-	200
Negative marking of 0.25 for each wrong tick mark.	

PHYSICS

- A spherical body of mass m and radius r is allowed to fall in a medium of viscosity η . The time in which the velocity of body increases from zero to 0.63 times and the terminal velocity is called time constant τ . Then time constant τ is
 a. $\sqrt{\frac{m}{6\pi\eta r}}$ b. $\frac{m\tau^2}{6\pi\eta}$ c. $\sqrt{\frac{6\pi\eta r}{m}}$ d. $\frac{m\tau}{6\pi\eta r}$
- What is the angle between the magnetic dipole moment and magnetic induction due to a bar magnet at a point on its perpendicular bisector?
 a. 0° b. 90° c. 120° d. 180°
- A projectile thrown at certain angle has its range 200 m and time of flight 5 seconds. Then its velocity at highest point of its trajectory will be
 a. 20 ms^{-1} b. 40 ms^{-1} c. 25 ms^{-1} d. 10 ms^{-1}
- A block of mass 2 kg is placed on a horizontal surface. The coefficient of static friction is 0.4 . If a force of 5 N is applied on the block parallel to the surface, the force of friction between the block and the surface (taking $g = 10\text{ m/s}^2$) is
 a. 5 N b. 2 N c. 8 N d. Zero
- A pendulum clock which keeps correct time at sea level, is taken to a place which is at height $h = 1\text{ km}$ above sea level. Then the clock approximately
 a. Gains 13.5 s per day b. Loses 13.5 s per day
 c. Loses 7 s per day d. Gains 7 s per day.
- A raft of wood (density 600 kg/m^3) of mass 120 kg floats in water. How much weight can be put on the raft to make it just sink?
 a. 200 kg b. 120 kg c. 80 kg d. 60 kg
- Bernoulli's theorem is based on
 a. Conservation of momentum
 b. Conservation of energy
 c. Conservation of mass
 d. Mass-energy equivalence
- Two solid spheres of same material have radii R and $2R$. Then ratio of their moment of inertia about their diameters will be
 a. $1:4$ b. $1:8$ c. $1:16$ d. $1:32$
- The depth of water at which air-bubble of radius 0.4 mm remains in equilibrium is (S.T. of water = $7.2 \times 10^3\text{ Nm}^{-2}$)
 a. 3.70 cm b. 7.40 cm c. 1.85 cm d. 0.92 cm
- If energy of satellite, revolving around the earth in an orbit in equatorial plane of earth, suddenly decreases then speed of the satellite
 a. Remains unchanged b. Decreases
 c. Increases d. May increase or decrease
- A body is moved along a straight line by a machine delivering constant power. The velocity acquired by the body in time t is proportional to
 a. $t^{1/2}$ b. $t^{3/2}$ c. $t^{3/4}$ d. t^2
- When an ideal gas undergoes an isothermal expansion, the pressure of the gas in the enclosure falls. This is due to
 a. Decrease in change in momentum per collision
 b. Decrease in frequency of collisions
 c. Both decrease in change in momentum per collision and decrease in frequency of collisions
 d. Neither decrease in change in momentum per collision and decrease in frequency of collisions
- The energy radiated by a body is independent of
 a. Area of body b. Nature of surface
 c. Temperature of a body d. Mass of body
- Hydrogen gas in a cylinder expands isobarically and the work done is 100 J . The amount of heat supplied must be
 a. 400 J b. 250 J c. 300 J d. 350 J
- A faulty thermometer has its fixed points marked 5° and 95° . This thermometer reads the temperature of body as 59° . Then the correct temperature on the Celsius scale is
 a. 59°C b. 48.6°C c. 60°C d. 58°C
- If a bimetallic strip is heated, it will
 a. Bend towards the metal with lower thermal expansion coefficient
 b. Bend towards the metal with higher thermal expansion coefficient
 c. Not bend at all
 d. Twist itself into a helix.
- The amount of heat required will be minimum when it is heated through:
 a. 1 K b. 1°C c. 1°F d. Same for all
- In hydrogen atom, the electron makes 6.6×10^{14} revolutions/sec around the nucleus in an orbit of radius 0.5 \AA . The equivalent current is nearly
 a. 10^{-2} A b. 10^{-3} A c. 10^{-4} A d. 10^{-5} A

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JS Bruner



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