Bong Motion

WBJEE Test Series

Subject - Physics

Category-1 (Q.1 to Q.10)

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One answer is correct. Correct answer will get 1 mark. Marks will be deducted for wrong

answers or any multiple answers.					
Which statement below is correct?					
(a) Boundary friction is proportional to the weight of the object					
(b) Frictional force is proportional to the weight of the object					
(c) Boundary frictional force is proportional to the perpendicular reaction					
(d) The boundary friction force is proportional to the perpendicular reaction					
2. Radius of first bore orbit r. The radius of the second bore orbit is					
(a) 1:4.	(b) 1:2				
(c) 4:1	(d) 2:1				
3. The kinetic energy E of a particle and the corresponding de Broglie wavelength. If the kinetic energy of the particle is 2E, what will be the de Broglie wavelength?					
(a) lemda/√2	(b) lemda/2				
© lemda/3	(d) lemda				
4. A beaker is filled to the brim with water at 4°C. The water in the beaker will overflow. If					
(a) The temperature is increased from 4°C					
(b) The temperature is reduced from 4°C					
(c) Any one of (a) and (b).					
(d) None of these					

5. During longitudinal propagation through a medium, the transmitted mass is

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(a) Energy.	(b) Substance				
(c) Energy and matte	(d) Momentum				
6. To increase the ar	nmeter range				
(a) Inferior resistance	e classes should be added to cooperatives				
(b) Low quality resist	tors should be connected in parallel				
(c) High quality resis	tance classes should be added to cooperatives				
(d) High resistance s	should be added in parallel co-operation				
	a resistance of 2002 and the angle between the current and the induced istance value of the circuit is				
(a) 50 Ω. (b) 100 Ω				
(c) 100 √3 Ω (d	d) 300 Ω				
	value of a point-source of an electromagnetic wave is 100 Vm-1, the istance of 5 m from the point source will be				
(a) 11 x 10-9J/m.	(b) 22 x 10-9 J/m				
(c) 88 x 10-9 J/m.	(d) 44 x 10-9 J/m				
, ,	s incident at an angle of 60° on one side of a prism of angle 30°. The ray rism makes an angle of 30° with the incident ray. Refractive index of				
(a) √2.	(c) 1.5				
(b) √3.	(d) 1.6				
10. A P-class cell					
(a) Positive					
(b) Negative					
(c) Uncharged					
(d) None of these					

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Answer Key:

1. C	2. C	3. a	4. C	5. b
6. b	7. b	8. d	9. b	10. C