

EXAM 5

class2013					
R#	exam1	exam2	exam3	exam4	exam5
R00037897	50	34	34	100	100
R00223777	50	67	84	100	84
R00287049	67	100	84	100	84
R00715213	83	67	50	100	100
R00761392	83	67	100	100	100
R00785134	17	50	50	100	100
R00838484	17	67	84	100	84
R00859969	17	66	34	100	100
R00870071	50	17	100	100	100
R00894889	50	67	100	100	100
R00895168	83	50	34	100	100
R00895511	100	84	100	100	100
R00897586	34	34	17	100	100
R00900602	100	84	70	100	100
R00903220	100	84	34	100	100
R00906938	100	100	100	100	100
R00915262	83	50	50	100	100
R00921430	100	100	100	100	100
R00921736	100	100	100	100	100
R00923038	100	50	100	100	100
R00928851	50	34	100	100	84
R00940836	83	66		100	84
R00943226	50	84	100	100	100
R00976816	100	84	100	100	100
R00981453	83	100	100	100	100
R00982692	17	66	34	100	100
R00997132	83	50	100	100	100
R01006514	34	50	100	100	100
R01011603	67	100	100	100	100
R01023637	84	67	100	100	100
R01025726	34	67	100	100	100
R01066687	67	50	100	100	
R01073358	83	100	100	100	100
R01298882	100	100	100	100	100

Summer 2013, Exam 5, QQ 1-3

<p>#1. A 1-μF capacitor is connected to emf that is increasing uniformly with time at a rate of 500 V/s. The displacement current between the plates is:</p> <p>A. 0 B. 10⁻⁴ A C. 10⁻² A D. 10⁻¹ A E. 100 A</p>	<p>#2. A bar magnet is placed vertically with its S pole up and N pole down. Its B field in its center is:</p> <p>1. 0 2. down 3. Up due to the weight of the magnet 4. horizontal 5. Slightly below horizontal</p>	<p>#3. If the amplitude of the electric field in a plane electromagnetic wave is 100 V/m, then the amplitude of the magnetic field is:</p> <p>A. 3.3×10^{-3} T B. 6.7×10^{-3} T C. 0.27 T D. 2×10^{-2} T E. 3×10^{-2} T</p>
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Summer 2013, Exam 5, QQ 4-6

<p>#4. Light with intensity of 1 kW/m² falls normally on a surface with an area of 1 cm² and is completely absorbed. The force of the radiation on the surface is:</p> <p>1. 1×10^{-8} N 2. 3.3×10^{-11} N 3. 4.7×10^{-10} N 4. 3.3×10^{-10} N 5. 6.7×10^{-11} N</p>	<p>#5. The index of refraction of benzene is 1.8. The critical angle for total internal reflection, at benzene air interface is about:</p> <p>A. 58° B. 47° C. 24° D. 22° E. 18°</p>	<p>#6. An object is 30 cm in front of a converging lens of focal length 10 cm. The image is:</p> <p>A. Real and larger than the object B. Real and the same size as the object C. Real and smaller than the object D. Virtual and the same size as the object E. Virtual and smaller than the object.</p>
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