

2 Consider two concentric conducting updaces as above below. The outer sphere is helius and these get of ±10 [X on it, in term radius in R, = 6 can and its outer radius in R, = 7 can and its outer radius in R, = 6 can and its outer radius in R, = 7 can and its outer radius in R, = 7 can and its outer radius in R, = 6 can and its outer radius in R, = 7 can and its outer radius in R, = 7 can and its outer radius in R, = 7 can and its outer radius in R, = 8 can and its

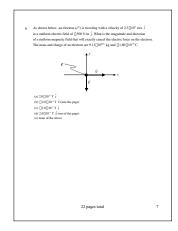
3. A concave minter has a radius of curvature of 10 cm. A 1 cm high object is placed 4 cm from the entires. What is the magnification or of the image?
(a) + 5
(b) 100
(c) 101
(d) 103
(d) 103
(e) 103
(e) 203
(e) 203
(e) 204
(e) 204
(e) 205
(e) some of the above

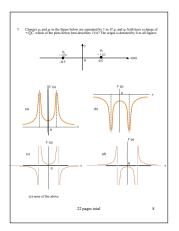
2.22 pages total

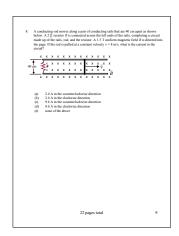
4

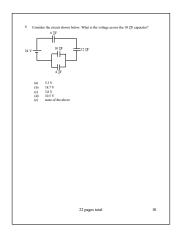
A districtor of the enters in a submaning part in phases before A hince parties in the forms to the convex of the part of an inspect A are required. It was the energy C [3] with the two such assement of efficiency of the times A [4] and A [5] and A [6] and A [7] and A [7] and A [8] and

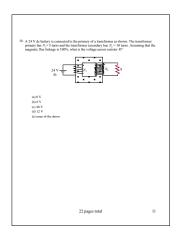
5 A satellite 100 km show the Farsh's surface has a concern with a hear of social length of 3.6 m. The cancers image can howly resolve two point sources of right that are 30 cm agent. What is A measurement effects demand on the low as destination of the first constitution of the low of the low of the low of the low of the destination constitution of the low of

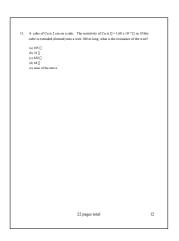


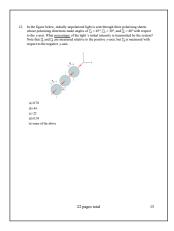


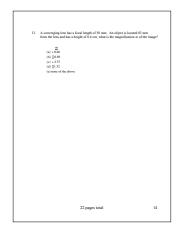


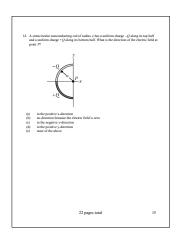


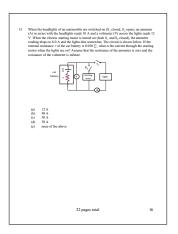


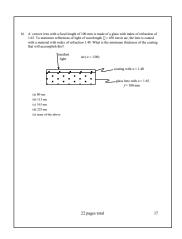


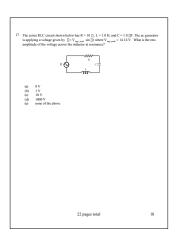


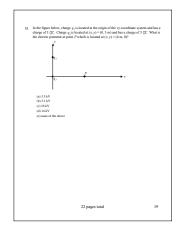


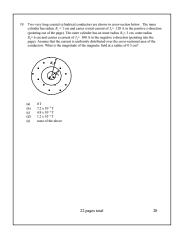




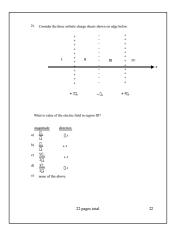












Physics 241 Answer key for blue Final Exam 2 May 3, 2004

- 1. (c) 12.5 cm
- 2. (b) 14.4 MV/m
- 3.(a) + 5
- 4. (b) $0 < [] < 41^{\circ}$
- 5. (b) $3.6 \square 10^{-1}$ m
- 6. (b) $\square 2.0 \square 10^{\square 4}$ T \hat{k} , into the page
- 7. (a)
- 8. (a) 2.4 A in the counterclockwise direction
- 9. (a) 5.3 V
- 10. (a) 0 V
- 11. (b) 21 🛘
- 12. (d) 0.39
- 13. (d) []1.52
- 14. (d) in the positive y direction
- 15. (c) 50 A
- 16. (a) 80 nm
- 17. (d) 1000 V
- 18. (c) 16 kV
- 19. (d) $1.2 \square 10^{\square 3} \text{ T}$
- 20. (c) $1.2 \square 10^6 \text{ W/m}^2$
- 21. (d) magnitude: $\frac{3\square_0}{2\square_0}$ direction: $\square x$