

# The Electromagnetic Spectrum

Use with Chapter 5,  
Section 5.1

1. What kinds of waves have the longest wavelength? What kinds of waves have the shortest wavelength?  
Radio waves have the longest wavelength. Gamma have the shortest.
2. Which waves have the lowest frequency?  
Radio waves have the lowest frequency.
3. Which has a higher frequency: microwaves or X rays?  
X rays
4. Which waves can be seen by the eye?  
Visible light.
5. Sequence the different segments of the visible spectrum in order from shortest wavelength to longest wavelength.  
Violet, blue, green, yellow, orange, and red.
6. Sequence the following types of waves from lowest frequency to highest frequency: ultraviolet rays, infrared rays, gamma rays, radio waves, and green light.  
Radio, infrared, green, ultraviolet, and gamma.
7. Compare the wavelengths and frequencies of each kind of wave. What is the relationship between frequency and wavelength?  
As wavelength increases, frequency decreases and vice versa.
8. What is the wavelength of a radio station emitting its signal at 95.5 MHz? Express your answer in the nearest power of ten.

# Physics Transparency Answers

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## Physics Transparency Answers:

**Lasers Without Inversion and Electromagnetically Induced Transparency** Sher Alam,1999 This text is aimed at advanced undergraduate and graduate students in physics and or engineering who have exposure to basic quantum mechanics and electromagnetism Problems and exercises are included to help readers develop both calculational and conceptual skills *Index to Educational Overhead Transparencies* National Information Center for Educational Media,1975 Nuclear Physics , **Learning Directory** ,1972 **Transparency of Time** Pauli Annala,1982 **Proton-antiproton Interactions and Fundamental Symmetries** Konrad Kleinknecht,Eberhard Klempt,1989 **Transparency and Secrecy in Nuclear Weapons** Annette Schaper,2005 **Advanced Mathematical Concepts Transparency Sampler 2001** McGraw-Hill Staff,2001 Instructor's Manual with Tests and Transparency Masters, Second Edition, Collective Bargaining & Labor Relations E. Edward Herman,1987 **Instructor's Resource Guide Transparency Masters and Video Guide to Accompany Managerial Accounting, Tenth Edition** Ray H. Garrison,2003 U.S. - Russian Warhead Dismantlement Transparency Oleg Bukharin,1999 **Instructor's Manual with Transparency Masters to Accompany Technical Writing** John M. Lannon,1997 **The Transparency of the Cornea** Council for International Organizations of Medical Sciences,1960 Inquiry Into Physics Vernon J. Ostdiek,1999-10 *Glencoe Science* McGraw-Hill Staff,2001-08 *CUET-PG Library & Information Science Practice Question Bank Book 3000+ Question Answer As Per Updted Syllabus* DIWAKAR EDUCATION HUB,2024-01-07 CUET PG Library Information Science Question Bank 3000 Chapter wise question With Explanations As per Updated Syllabus cover all 6 Chapters Highlights of CUET PG Library Information Science Question Bank 3000 Questions Answer MCQ 500 MCQ of Each Chapter Unit wise As Per the Updated Syllabus Include Most Expected MCQ as per Paper Pattern Exam Pattern All Questions Design by Expert Faculties JRF Holder *Resources in Education* ,1992 Serves as an index to Eric reports microform **Chapter Resource 26 Plant Growth/Developmental Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 *Building Thinking Skills: (MP 52.01)* Sandra Parks,Howard Black,Sandra Black,1984 Provides an effective tool for implementing analysis skills necessary for success in all academic disciplines *Chapter Resource 32 Introduction/Vertebrates Biology* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004

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