

B.Sc. IV Semester Degree Examination

CBS-IVS/5

214688

PHYSICS

Course No. UPHTC-401

Maximum Marks: 80

Time Allowed: 24 hours

Note: Attempt all questions from Section A and Section B and any two questions from Section C.

Section – A

1. Show that  $f(x)$  contains only sine terms for odd functions.
2. What do you understand by superposition principle?
3. In a Newton's rings experiment, the diameter of 10th dark ring due to wavelength  $6000 \text{ \AA}$  in air is  $0.5 \text{ cm}$ . Calculate the radius of curvature of lens.
4. In a Fraunhofer diffraction pattern due to a narrow slit, a screen is placed  $2\text{m}$  away from the lens. If the slit width is  $0.2 \text{ mm}$  and the first minima lie  $5 \text{ mm}$  on either sides of the central maximum, find the wavelength of light.
5. Explain Malus Law.

Section - B

1. Discuss how the interval of fourier expansion is extended from  $(-1,7)$  to  $(-1, 1)$  for a periodic function  $f(x)$ .  
<https://www.jktopper.com>
2. Derive an expression for the velocity of transverse waves in a string.
3. Find an expression for fringe width in case of young's double slit experiment.
4. What is a zone plate? Derive an expression for its focal length.
5. State and derive Brewster's law.

Section -C

1. State properties of Fourier series. Give analysis of square wave in terms of Fourier coefficients.
2. Explain the terms phase velocity and group velocity are identical for a non-dispersive medium.
3. Describe construction and working of michelson interferometer. How will you use it to determine wavelength of monochromatic light? <https://www.jktopper.com>
4. i) Derive an expression for dispersive power of grating. ii) What is Rayleigh's criterion for resolution? Derive an expression for the resolving power of grating.
5. Define specific rotation. Describe the construction and working of Laurents half-shade polarimeter. Explain how it is used to determine the specific rotation of sugar solution.

# Model Paper Bsc 4 Sem Physics

**G Orfield**



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*Mechanics (Physics for Civil Engineering and Print Technology)* Dr. Jitendra Gaur, 2022-08-02 This book covers the latest syllabus of B Tech 1st year Civil Engineering Printing Technology UG Course of Maharshi Dayanand University Rohtak Haryana and G scheme of AICTE The book covers almost 100% of the syllabus Number of solved problems along with important questions and previous year university exam papers are enclosed in the book **Universities Handbook**, 2014

*All India Educational Directory* Dharma Vira Aggarwala, Gurbachan Singh, 1972 **Expanded Abstracts with Biographies**, 1997 **Which Degree?**, 1981 *American Men and Women of Science*, 1977 **CRC Critical Reviews in Solid State Sciences** Chemical Rubber Company, 1973 *American Men & Women of Science*, 2003 *Babel*, 1991

**Who's Who in Science and Engineering 2008-2009** Who's Who Marquis, Marquis Who's Who, 2007-12 *Directory of American Scholars* Jaques Cattell Press, 1982 **Men of Achievement**, 1978 **Dictionary of International Biography**, 1976

A biographical record of contemporary achievement together with a key to the location of the original biographical notes *Commonwealth Universities Yearbook*, 1984 **Who's Who in the West** Marquis Who's Who, 2006-06 **Who's Who in America, 1996** Marquis Who's Who, Inc, 1995-09 We make very heavy use of WHO S WHO IN AMERICA in our library It s used daily to check biographical facts on people of distinction MARIE WATERS HEAD OF COLLECTION DEVELOPMENT UNIVERSITY OF CALIFORNIA AT LOS ANGELES Marquis Who s Who is proud to announce the Golden Anniversary 50th Edition of WHO S WHO IN AMERICA This the world s preeminent biographical resource keeps pace with a changing America with more than 17 500 new entries each year AND it speeds research with the Geographic Professional Indexes ANNUAL UPDATING enables Marquis Who s Who to bring users more new names to update more existing entries each year Every entry is selected researched to ensure the most current accurate biographical data for Who s Who users The Geographical Professional Indexes makes WHO S WHO IN AMERICA an even more useful research tool Now users can identify locate prospective partners new clients by profession in any of 38 categories as well as by country state or province or city Essential for quickly finding the entries you need More than 92 000 leaders decision makers innovators from every important field business finance government education science technology the arts more are profiled in this Golden Anniversary 50th Edition Entries include name occupation vital statistics parents marriage children education career civic political activities writings creative works awards professional memberships office address When you need authoritative accurate facts on our nation s leaders go to the preeminent record of American achievement that offers new information EVERY year Marquis WHO S WHO IN AMERICA [*American men and women of science / A Biographical directory of today's leaders in physical, biological and related sciences* ] ; *American men & women of science. A Biographical directory of today's leaders in physical, biological and related sciences. 1998/99,1*, 1998 **Who's who in Engineering**, 1995 **Who's who in European Research and Development**, 1997 *Who's Who in the World*, 1995 Marquis Who's Who, 1995-12 This

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