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Question Paper Code : 41521

B.E./B.Tech. DEGREE EXAMINATIONS, JANUARY 2022.

First Semester

Civil Engineering

PH 3151 – ENGINEERING PHYSICS

(Common to all Branches)

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define the terms : rotational kinetic energy and moment of inertia.
2. The classroom door is of width 50 cm. If the handle of the door is 20 cm from the edge and the force of 5 N is applied on the handle, compute the torque.
3. Write any five properties of electromagnetic waves.
4. Define the term radiation pressure. How do electromagnetic waves have momentum?
5. Define the term Simple harmonic motion.
6. What is spontaneous emission and stimulated emission?
7. What is Compton effect? Compton effect is not observable in the visible region of electromagnetic spectrum, Justify it.
8. What is the meaning of normalization in quantum mechanics?
9. What is quantum tunneling?
10. Give a note on the origin of energy bands.

PART B — (5 × 16 = 80 marks)

11. (a) Explain how the moment of inertia of rigid bodies affects their rotational kinetic energy. (16)
Or
(b) Discuss in detail the concept of conservation of angular momentum. (16)

Anna University Question Papers For Civil Engineering

RS Peters



Anna University Question Papers For Civil Engineering:

Management Concepts for Civil Engineers K. Anbuvelan, 2005 *BUILDING MATERIALS, SECOND EDITION*

VARGHESE, P. C., 2015-02-26 This practice oriented book now in its second edition presents a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India Profusely illustrated with tables and diagrams the book brings into light the basics of building materials and their specifications Besides giving information regarding the traditional building materials the text now acquaints the reader with up to date and in depth information pertaining to modern materials available in the market The references to IS codes and standards make this text suitable for further study and field use The second edition possesses some substantial changes in Chapters 12 13 14 and 20 Now the book offers a new section on durability of concrete in Chapter 12 a modified section regarding revision of IS 10262 1982 code on concrete mix design to IS 10262 2009 and a new section on classification of exposure conditions in Chapter 13 and a new section relating to large advances made in concrete construction and repair chemicals in Chapter 14 Besides the content of Chapter 20 has been completely updated with a particular emphasis on the extensive use of aluminium in building construction Primarily intended for the students pursuing undergraduate degree B E B Tech and diploma courses in civil engineering and architecture the book on account of lecture based presentation of the subject should also prove eminently utilitarian for the young teachers to use it in their classroom lectures as well as for practising engineers to get a clear understanding of the fundamentals of the subject NEW TO THE SECOND EDITION Review questions at the end of each chapter enable the reader to recapitulate the topics Considerable attention is given on field practice Syllabus of laboratory work on construction materials and a model question paper Anna University are given in appendices to guide the reader

BUILDING MATERIALS P. C. VARGHESE, 2005-01-01 This practice oriented book provides a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India Profusely illustrated with tables and diagrams the book exposes the reader to the basics of building materials and their specifications The text also acquaints the reader with the traditional as well as modern materials available in the market The references to IS codes and standards make this text suitable for further study and field use This book is primarily designed as an introductory textbook for the students pursuing undergraduate degree B E B Tech and diploma courses in civil engineering and architecture Because of the lecture based presentation of the subject the text would also be of considerable benefit for the young teachers for their classroom lectures Practising engineers would also get a clear understanding of the fundamentals of the subject **Principles of Management MG-1351** K. Anbuvelan, 2007 **Recent Advances in**

Materials, Mechanical and Civil Engineering P. Nageswara Rao, R. Kotaiah, D. Venkateswarlu, 2018-02-15 ICRAMMCE 2017 Selected peer reviewed papers from the International Conference on Recent Advances in Material Mechanical and Civil Engineering 2017 ICRAMMCE 2017 June 1 2 2017 Hyderabad India *Who's who in Indian Engineering and Industry*, 1962

Who's who in Indian Engineering & Industry ,1962 *Proceedings of the Institution of Civil Engineers* ,2005
Canadian Journal of Civil Engineering ,1996 **Publisher's Monthly** ,2004 *Journal of the Institution of*
Engineers (India) Institution of Engineers (India),1974 **Proceedings of the American Society of Civil Engineers**
 American Society of Civil Engineers,1920 Vols for Jan 1896 Sept 1930 contain a separately page section of Papers and
 discussions which are published later in revised form in the society s Transactions Beginning Oct 1930 the Proceedings are
 limited to technical papers and discussions while Civil engineering contains items relating to society activities etc *Indian*
Science Abstracts ,2002 **Journal of Education** ,1881 **Engineering News and American Contract Journal** ,1886
Railroad Age Gazette ,1895 **Railroad Gazette** ,1895 *The Independent* ,1895 Ariel ,1881 **Outlook**
 Alfred Emanuel Smith,Francis Walton,1890

The Top Books of the Year Anna University Question Papers For Civil Engineering The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. Anna University Question Papers For Civil Engineering : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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