

## CBCS SCHEME

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17EC833

**Eighth Semester B.E. Degree Examination, July/August 2021**  
**Radar Engineering**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1. a. Explain basic principle of radar with suitable diagrams. (10 Marks)  
 b. Explain maximum unambiguous range of a radar with equation and graph. (10 Marks)
2. a. A 10GHz radar has the following characteristics  $P_r = 2500\text{CW}$ ,  $\text{PRF} = 1500\text{PPS}$ , pulse width =  $0.8\mu\text{s}$ , Power gain of antenna = 2500,  $S_{\text{min}} = 10^{-14}\text{W}$ ,  $A_e = 10\text{m}^2$ ,  $\sigma = 2\text{m}^2$ . Find : i) Range ii) Maximum possible range iii) Duty cycle iv) Average power. (10 Marks)  
 b. Briefly describe the major areas of radar applications. (10 Marks)
3. a. Derive the modified radar equation in terms of signal to noise ratio. (10 Marks)  
 b. Explain the radar cross section of sphere and cone sphere target. (10 Marks)
4. a. Discuss with equation and graphs the probability of false alarm and the probability of detection using a envelope detector. (10 Marks)  
 b. Discuss briefly the following types of system losses in radar  
 i) Microwave plumbing losses  
 ii) Antenna losses  
 iii) Signal processing losses. (10 Marks)
5. a. Explain the working of digital Moving Target Indicator (MTI) doppler signal processor with neat diagram. (10 Marks)  
 b. List the limitations of single delay line cancellers and derive its associated equations. (10 Marks)
6. a. With neat block diagram, explain the original Moving Target Detector (MTD) signal processor. (10 Marks)  
 b. Derive the equations for clutter attenuation and MTI improvement factor. (10 Marks)
7. a. Define monopulse tracking. Using block diagram explain amplitude comparison monopulse tracking radar for a single angular coordinate. (10 Marks)  
 b. With neat block diagram, explain conical scan tracking radar. (10 Marks)
8. a. What are the different types of tracking radar systems? Explain with diagrams, how angle tracking is done. (10 Marks)  
 b. Discuss on tracking in range of a tracking radar with suitable waveforms and equations. (10 Marks)
9. a. List the different functions served by radar antenna. (10 Marks)  
 b. Explain different types of radar display system. (10 Marks)
10. a. List the advantages and limitations of electronically steered phase array antenna. (10 Marks)  
 b. What is the role of duplexer's in radar system? Illustrate the transmit condition and receive condition in case of balanced duplexer. (10 Marks)

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# **Radar Engineering Objective Question And Answers**

**United States. Congress. House.  
Committee on Appropriations.  
Subcommittee on Department of  
Defense**

## **Radar Engineering Objective Question And Answers:**

**Radar Engineering** Raju,2013-12-30 This book contains the applications of radars fundamentals and advanced concepts of CW CW Doppler FMCW Pulsed doppler MTI MST and phased array radars etc It also includes effect of different parameters on radar operation various losses in radar systems radar transmitters radar receivers navigational aids and radar antennas Key features Nine chapters exclusively suitable for one semester course in radar engineering More than 100 solved problems More than 1000 objective questions with answers More than 600 multiple choice questions with answers Five model question papers Logical and self understandable system description **Electronics Engineering (O.T.)** R.

Kumar,200? **Audio and Video Systems** M. L. Anand,2024-10-18 This book details the important concepts in the study of audio and video systems It covers the basics of audio and video engineering communication and radar systems optical fibers and consumer electronics It is aimed at B Tech and Diploma students and also includes assessment questions for better understanding and practice The subject matter of this book also discusses Sound Synthesis Need of F M Frequency Modulation for Video Recording Turnstile Array Delta Gun Colour Picture Tube Snell s Law Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan or Bhutan **Electro Magnetic Field Theory** , Hearings, Reports and Prints of the Senate Committee on Foreign Relations United States. Congress. Senate. Committee on Foreign Relations,1970

**GATE Textile Engineering and Fibre Science [TF] Question Bank 3000+ Questions Based on Exam Format MCQ/NAT/Written Type Questions** DIWAKAR EDUCATION HUB,2023-12-03 GATE Textile Engineering and Fibre Science Code TF Practice Sets 3000 Question Answer MCQ NAT Written Type Questions Highlights of Question Answer Covered All 6 Sections of Latest Syllabus Based MCQ NAT Written Type Question As Per Syllabus The Chapters are 1 ENGINEERING MATHEMATICS 2 Textile Fibres 3 Yarn Manufacture Yarn Structure and Properties 4 Fabric Manufacture Structure and Properties 5 Textile Testing 6 Chemical Processing In Each Chapter Unit Given 500 MCQ NAT Written Type Question In Each Unit You Will Get 500 Question Answer Based on Multiple Choice Questions MCQs Numerical Answer Type NAT Written Type Questions Total 3000 Questions Answer with Explanation Design by Professor JRF Qualified Faculties **Department of Defense Appropriations for 2001: Army acquisitions programs** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,2004 **Shipboard Electronics Material Officer** Earl F. Roe,1982 **ABM, MIRV, SALT and the Nuclear Arms Race** United States. Congress. Senate. Committee on Foreign Relations. Subcommittee on Arms Control, International Law, and Organization,1970 **ABM, MIRV, SALT, and the Nuclear Arms Race, Hearings Before the Subcommittee on Arms Control, International Law and Organizations...** 91-2. March 16, April 8,9,13,14, May 18,28, June 4,29 United States. Congress. Senate. Foreign Relations,1970

*Fundamental of Microprocessors & its Application* A.K.Chhabra,2005 World first Microprocessor INTEL 4004 a 4 bit Microprocessor came in 1971 forming the series of first generation microprocessor Science then with more and advancement

in technology there have been five Generations of Microprocessors However the 8085 an 8 bit Microprocessor is still the most popular Microprocessor The present book provied a simple explanation about the Microprocessor its programming and interfacing The book contains the description mainly of the 8 bit programmable Interrupt Interval Timer Counter 8253 Programmable communication Interface 8251 USART 8251A and INTEL 8212 8155 8256 8755 and 8279     *Software Engineering* Sajan Mathew,2007 This book is a comprehensive step by step guide to software engineering This book provides an introduction to software engineering for students in undergraduate and post graduate programs in computers

Department of Defense Appropriations for ... United States. Congress. House. Committee on Appropriations,1988

NASA Authorization for Fiscal Year 1980 United States. Congress. Senate. Committee on Commerce, Science, and Transportation,1979     **Department of Defense Appropriations** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1990     Department of Defense Appropriations for 1990 United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1989     **Department of Defense Appropriations for 1990: Chemical weapons and demilitarization** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1989     Hearings, Reports and Prints of the Senate Committee on Armed Services United States. Congress. Senate. Committee on Armed Services,1965     **Technical Report** Human Resources Research Organization,1966     **Scientific and Technical Aerospace Reports** ,1988-04

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