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**B.E (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2019**  
**AGRICULTURAL AND IRRIGATION ENGINEERING BRANCH**  
**SECOND SEMESTER**  
**PH 7253- PHYSICS FOR AGRICULTURAL AND IRRIGATION ENGINEERING**  
**(Regulation 2015)**

Time: 3hr

Max Mark: 100

**Answer All Questions**  
**Part – A (10x2=20 Mark)**

1. What are the different types of source used for food irradiation?
2. What are the general application and dose categories referred for food irradiation?
3. What are the different types of Bio physical Methods used in Agriculture?
4. Name the effects that are achieved in environmental protection by the use of Bio Physical Method?
5. Define spectral signature and what is the role of it in remote sensing?
6. Write short notes on GIS?
7. Name the different types of water movement in soil with reasons?
8. Compare soil compaction and soil consolidation?
9. Name the parts present in external structure of leaf?
10. What is difference between photosystem I and Photosystem II?

**Part – B (5x16=80Mark)**

11. Give an account on various types of Interaction of Ionizing and Non-ionizing radiation?
12. a) What are the effects of new methods implicated in agriculture in protection of Environment?  
OR  
b) Discuss in detail about the application and effects of Biophysical methods in agriculture?
13. a) Describe in detail Soil temperature and heat flow?  
OR  
b) Elaborate soil as a three phase system?
14. a) Give an account on the sensors used in remote sensing?  
OR  
b) Expound in detail about DIP?
15. a) Give an account on light reaction in Photosynthesis?  
OR  
b) Discuss in detail about Calvin cycle with a neat diagram?

\*\*\*\*\*



# Anna University Model Question Papers For Civil Engineering

**Patrick Vollmar**



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to solve a linear programming problem we first need to know the fundamental theorem of linear programming given that an optimal solution to a linear programming problem exists it must occur at a vertex of the feasible set if the optimal solution occurs at two adjacent vertices of the feasible set then the linear programming problem

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linear programming offers the easiest way to do optimization as it simplifies the constraints and helps to reach a viable solution to a complex problem in this article we will solve some of the linear programming problems through the graphing method the best maths tutors available 5 56 reviews paolo 30 h 1 st lesson free

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for an integer programming model  $p$  the linear programming model we get by dropping the requirement that all variables must be integers is called the linear programming relaxation of  $p$  the steps are divide a problem into subproblems calculate the lp relaxation of a subproblem

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exercise 9 an optimal control problem with an analytical solution we consider the problem of maximizing a linear function of the final state of a linear system subject to bounds on the inputs maximize  $dx_n$  subject to  $u \leq u_{\max}$   $u \geq 0$   $n = 1, \dots, N-1$   $u_0 = u_{\max}$  where  $x$  and  $u$  are related via the recursion  $x_{t+1} = Ax_t + Bu_t$

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2018 2019 exercise 3 determine using the simplex algorithm with bland's rule the optimal solution to the following linear programming problem  $\max s.t. x_1 \geq 3, x_2 \geq 5, x_3 \geq 2, x_4 \geq 1, 2x_1 + 3x_3 + x_4 \geq 3, 2x_1 + x_2 + x_3 + 2x_4 \geq 4, x_1, x_2, x_3, x_4 \geq 0$  solution the problem in

standard form is the initial tableau is  $\min s$   $t$   $s_1$   $s_2$

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recognize the typical form of a linear programming problem formulate maximization linear programming problems graph feasible regions for maximization linear programming problems determine optimal solutions for maximization linear programming problems

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