

26.4.19

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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?

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