B.E/B.TECH, M.E/M.TECH, MBA, MCA, POLYTECHNIC & SCHOOLS

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Maximum: 100 marks

					 2255	V.	
Reg. No. :							

Question Paper Code: 20996

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.

Fifth/Seventh Semester

Aeronautical Engineering

OAI 551 - ENVIRONMENT AND AGRICULTURE

(Common to Aerospace Engineering/Automobile Engineering/Civil
Engineering/Environmental Engineering/Geoinformatics Engineering/Industrial
Engineering/Industrial Engineering and Management/Manufacturing
Engineering/Marine Engineering/Material Science and Engineering/Mechanical
Engineering/Mechanical Engineering (Sandwich)/ Mechanical and Automation
Engineering/Mechatronics Engineering/Production Engineering/Robotics and
Automation/Bio Technology/Food Technology/Pharmaceutical Technology)

(Regulations 2017)

Time: Three hours

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- List any four water quality characteristics with its desirable levels for good agriculture practices.
- 2. How the globalization is expected to impact Agriculture produce in India?
- 3. Briefly state the impact of urbanization on Agriculture sector.
- Discuss Watershed management for agriculture development.
- 5. List any two GHG with their respective GWP.
- 6. What are the impacts of Climate Change on water required for agriculture?
- List any four principles of Ecological Farming.
- 8. How biological diversity influences agriculture practices?
- 9. Explain the concept of Vertical Farming.
- 10. State any two alternate culture systems for sustainable agriculture.

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PART B — $(5 \times 13 = 65 \text{ marks})$

 (a) Discuss the landscape changes due to Urbanization that affects the agriculture sector.

Or

- (b) Comment on salient features of Agro Ecosystems.
- (a) List any two impacts of both deposition and erosion of soil in agriculture farm management.

Or

- (b) Write briefly on the impacts of agriculture drainage on environment.
- 13. (a) List any four reasons of desertification due to Climate Change.

Or

- (b) How does global warming influence the changes in the ecosystems?
- 14. (a) State any two salient features to characterize Ecological Diversity.

Or

- (b) How does the climate change influence the forest fragmentation?
- 15. (a) State any four farm practices that are must for sustainable agriculture.

Or

(b) How does the virtual water trade influence the local agriculture environment?

PART C — $(1 \times 15 = 15 \text{ marks})$

16. (a) How does the global Warming influence scarcity of water required for agriculture? Explain in detail.

Or

(b) Evaluate the agriculture biotechnology concerns in facilitating sustainable agriculture.

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