



# THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

Re-accredited (2<sup>nd</sup> Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

## Backlog Arrear Examination, March 2021

CHE 1261

CHEMISTRY IN EVERYDAY LIFE

Marks: 60

Answer ANY FOUR Questions

4 x 15 = 60

1. (a) Explain how water is softened by ion-exchange process. (8)  
(b) What is reverse osmosis? Explain the process. (7)
2. (a) Discuss the advantages and disadvantages of chemical fertilizers and biofertilizers. (8)  
(b) Explain the adverse effects of DDT. (7)
3. (a) Write the preparation, properties and uses phenol-formaldehyde resin. (5)  
(b) Explain the vulcanization process of rubber. (10)
4. (a) Classify the explosives. What are the characteristics of explosives? (8)  
(b) Write a note on rocket fuels. (7)
5. Discuss in detail about antibiotics and analgesics with examples.
6. (a) What is temporary and permanent hardness of water? How it is removed? (10)  
(b) Write the preparation properties and uses of Teflon. (5)

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