

**YASHWANTRAO CHAVAN MAHARASHTRA OPEN UNIVERSITY, NASIK**

**HOME ASSIGNMENT**

**(2016-17)**

**B.Sc. Regular (V92)**

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**Instructions for the Students:**

- 1) All Questions are compulsory.
- 2) Each Sub-question carries 5 marks.
- 3) Each Sub-question should be answered between 75 to 100 words. Write every question's answer on separate page.

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**Semester II**

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**ENVIRONMENTAL SCIENCE (AEC211)**

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|---|-------|
| Q.1 Explain natural resources ?             | 5Mark |
| Q.2 Write about study of simple ecosystem ? | 5Mark |
| Q.3 Explain women and child welfare.        | 5Mark |
| Q.4 Explain global warming .                | 5Mark |

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**PHYSICS II(S34221)**

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|--|-------|
| Q.1 Explain Curl and their significance? | 5Mark |
| Q.2 Write about Electrostatic Potential? | 5Mark |
| Q.3 Explain Electromagnetic Waves.       | 5Mark |
| Q.4 Explain Eddy Currents.               | 5Mark |

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**CHEMISTRY II(S37231)**

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|---|-------|
| Q.1 Explain Free energy change in a chemical reaction?            | 5Mark |
| Q.2 Write about Clemensen reduction and Wolff Kishner reduction.? | 5Mark |
| Q.3 Explain Schotten – Baumann Reaction.                          | 5Mark |
| Q.4 Explain Le Chatelier's principle.                             | 5Mark |

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**MATHEMATICS II(S41241)**

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|---|-------|
| Q.1 Explain Linear non-homogenous equations?                                    | 5Mark |
| Q.2 Write about Concept of linear and nonlinear partial differential equations. | 5Mark |
| Q.3 Explain Wronskian, and its properties.                                      | 5Mark |
| Q.4 Explain Integrating factors, rules to find an integrating factor.           | 5Mark |