

**MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
CENTRE FOR RURAL DEVELOPMENT (CRD)
Ph.D. ENTRANCE EXAMINATION**

SECTION B (Technical)

Max. Time: - 60 mins

Max. Marks: 60

Important instructions for candidates:

1. This paper consists of 60 multiple choice questions for 1 marks each .
2. There is no negative marks for incorrect answers
3. All questions are compulsory
4. Each question has four choices. Select only one choice as your response

-
1. Under which scheme was the concept of Model Villages promoted?
 - a. Sansad Adarsh Gram Yojana
 - b. Saansad Gramin Sadak Yojana
 - c. Smart Villages Scheme
 - d. Jan Dhan Yojana
 2. National Rural Livelihood Mission (NRLM) promotes which type of groups to empower rural women?
 - a. Farmer Producer Organizations (FPOs)
 - b. Microfinance Institution
 - c. Self-Help Groups (SHGs)
 - d. Co-operative Societies
 3. Which microorganism is commonly used as a bio-fertilizer for nitrogen fixation in leguminous plants?
 - a. Rhizobium
 - b. Azotobacter
 - c. Phosphobacteria
 - d. Cyanobacteria
 4. What is green manure, and how does it improve soil fertility?
 - a. A chemical fertilizer used in agriculture
 - b. Animal waste mixed with compost
 - c. Cover crops ploughed into the soil to add organic nutrients
 - d. Synthetic nitrogen fertilizer
 5. What is the ideal temperature range for the bio-methanation process?
 - a. 0°C to 5°C
 - b. 30°C to 40°C
 - c. 50°C to 60°C
 - d. 80°C to 100°C