

22505

22232

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

5 × 2 = 10

- (a) Define Rural development & state need of it.
- (b) State the economical significance of rural development.
- (c) Enlist the advantages of Watershed Management.
- (d) Enlist the sources of rural water supply.
- (e) State the need of development of rural road.
- (f) Name the sources of foreign institutional funds.
- (g) State the beneficiary eligibility of Deendayal Upadhyaya Grameen Kaushalya Yojana.



2. Attempt any THREE of the following :**3 × 4 = 12**

- (a) Describe in brief role of civil engineer in development of rural area.
- (b) Enlist different types of irrigation system in India and explain any one in brief.
- (c) Draw typical sketch of contour bunds and state its suitability.
- (d) Suggest different techniques that can be used for construction of low cost housing.

3. Attempt any THREE of the following :**3 × 4 = 12**

- (a) Explain in brief working of Gobar gas plant with neat sketch.
- (b) Explain the different organic wastes and residues used for biomass energy.
- (c) Explain in brief different sources of renewable energy.
- (d) State the various activities that should be conducted for creating awareness for use of non conventional energy product.

4. Attempt any THREE of the following :**3 × 4 = 12**

- (a) Justify the need of cottage industry in rural development.
- (b) State the measures to be adopted in order to remove limitations of Agricultural Credit in India.
- (c) State the various types of Agro-based Industry & explain any one in brief.
- (d) State the salient features of NAREGA 2007.
- (e) State the necessity of planning for the development of rural area.

5. Attempt any TWO of the following :**2 × 6 = 12**

- (a) Explain the different components of roof top rainwater harvesting with neat sketch.
- (b) State the requirement of rural sanitation in India and also state the ill effects of poor sanitation.
- (c) State the program objectives of PMGSY scheme and eligibility criteria for Pradhan Mantri Awas Yojana.

6. Attempt any TWO of the following :**2 × 6 = 12**

- (a) Explain the salient features of NREGA 2005.
 - (b) Describe the methodology used for executing the block and district level planning.
 - (c) Describe the function of planning of micro, meso and macro levels for rural area.
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