

22505

**21222**

**3 Hours / 70 Marks**

Seat No.

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15 minutes extra for each hour

- 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) Use of Non-programmable Electronic Pocket Calculator is permissible.
  - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

**1. Attempt any FIVE of the following :**

**10**

- (a) State the objectives of rural development.
- (b) State the different types of irrigation systems.
- (c) Enlist the different eco-friendly materials using for rural development.
- (d) Enlist the sources of funds for rural development.
- (e) Enlist different Government schemes for rural development.
- (f) State the necessities of planning for rural development.
- (g) State the purpose of CAPART.

**2. Attempt any THREE of the following :**

**12**

- (a) Explain the role of Civil Engineer in the development of rural area.
- (b) Explain the function of K.T. weir and farm pond systems in water shed management.
- (c) State the various factors which affects, while selecting irrigation system.
- (d) Discuss the different sources of renewable energy.

- 3. Attempt any THREE of the following : 12**
- (a) Explain the working of Biogas plant with neat sketch.
  - (b) State the objectives of Renewable Energy and Integrated Rural Energy Programme.
  - (c) State the necessity of low cost housing & material used for the same.
  - (d) Explain the credit-cum subsidy scheme of rural housing.
- 4. Attempt any THREE of the following : 12**
- (a) State the necessity of cottage industry.
  - (b) Enlist the advantages of following : (i) Horticulture (ii) Sericulture
  - (c) Suggest the various criteria for setting the brick manufacturing industry in rural area.
  - (d) Explain the execution of Deen Dayal Upadhyaya Grameen Kaushalya Yojana for the development of the rural area.
- 5. Attempt any TWO of the following : 12**
- (a) Draw the standard layout of lift irrigation scheme.
  - (b) Discuss the need and methods of rural water supply & sanitation.
  - (c) Discuss the salient features of Indira Awas Yojana.
- 6. Attempt any TWO of the following : 12**
- (a) Explain the salient features of National Rural Employment Guarantee Act, 2005 for rural development.
  - (b) Describe the process of micro level planning w.r.t. agriculture for rural area.
  - (c) Explain the methodology used for executing the block and district level planning.
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