

22505

24225

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.

Marks

1. Attempt any FIVE of the following :

10

- (a) State the need of rural development in India.
- (b) List Various micro-irrigation techniques.
- (c) Write classification of rural roads on the basis of local available material.
- (d) Write names of four types of cottage industry for civil engineering materials.
- (e) State the government policies pertaining to rural development.
- (f) Define a Socio-economic survey.
- (g) Give the meaning of the term "Rain water harvesting".

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.
- (c) Explain design parameters for laying drip irrigation.
- (d) Explain the credit-cum-subsidy schemes for rural development.



- 3. Attempt any THREE of the following : 12**
- (a) Explain the principles of low-cost housing.
 - (b) Explain working of Biogas Plant with neat sketch.
 - (c) Explain use of local materials for construction of low-cost housing.
 - (d) Explain the salient features of Pradhan Mantri Gram Sadak Yojana.
- 4. Attempt any THREE of the following : 12**
- (a) Explain infrastructure requirements of cottage industry.
 - (b) Enlist sources of funds for rural development in India.
 - (c) Draw flow diagram of stone crushing plant.
 - (d) Explain the salient features of Deen Dayal Upadhyay Grameen Kaushalya Yojana.
 - (e) State the necessity of Planning for rural development.
- 5. Attempt any TWO of the following : 12**
- (a) Explain protection of borehole source of water.
 - (b) Draw layout of Sprinkler irrigation system showing its components.
 - (c) Explain construction techniques of rural road.
- 6. Attempt any TWO of the following : 12**
- (a) Describe the procedure mentioned in Prime Minister Rural Development Fellow scheme for rural development.
 - (b) Explain the methodology used for executing the block and district level planning.
 - (c) Describe the functions of planning at micro, meso and macro levels for rural area.
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