

**Total No. of Questions : 09**

**B.Tech. (CE) (2012 to 2017) (Sem.-7)**  
**INFRASTRUCTURE DEVELOPMENT & MANAGEMENT**  
**Subject Code : BTCE-821**  
**M.Code : 71880**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

## SECTION-A

**1. Write briefly :**

- a. Explain the term Infrastructure. What are their merits and demerit in today's economy?
- b. Explain two categories in which infrastructure are divided. How are both interdependent?
- c. How infrastructure facilities boost Production?
- d. Infrastructure contributes to the economic development of the country. Do you agree? Explain.
- e. What is the state of rural infrastructure of India in today's world?
- f. What is the significance of Energy? Differentiate between commercial and non-commercial sources of energy.
- g. The rural infrastructure development fund (RIDF) is operationalised by which Govt. agency.
- h. What were the main causes of Indian agricultural stagnation during the colonial period?
- i. What do you mean by Toll collection Strategy?
- j. Numerate different construction components of various infrastructure sectors.

### SECTION-B

2. What are the requirements of Good Ports? Briefly explain the Port development in India.
3. What is meant by DAM and RESERVOIR? What are the different materials that are commonly used for DAM construction and what are their comparative advantages and disadvantages?
4. Differentiate between “alluvial and non alluvial” canals. What are the different ways in which irrigation canals can be aligned?
5. What is wind rose diagram? What is its utility? What are its types? Explain each type.
6. Explain the procedure of orientation of the Runway.

### SECTION-C

7. Explain various technological and methodological demands on construction management in infrastructure development projects.
8. What is hydrographic survey? Briefly explain the planning techniques for the coastal surveys.
9. Briefly outline the considerations in deciding the size and position of Harbor entrances.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**