



# COLLEGE OF ENGINEERING, PUNE

(An Autonomous Institute of Government of Maharashtra.)  
SHIVAJI NAGAR, PUNE - 411 005

## END Semester Examination

### Infrastructure Planning, Development and Management (BP 317)

Course: B.Tech

Branch: Planning

Semester: Sem V

Year: 2014-2015

Max.Marks:60

Duration: 3 Hours Time:- 2.00PM- 5.00 PM

Date:1.12.2014

#### Instructions:

MIS No.

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1. Figures to the right indicate the full marks.
2. Mobile phones and programmable calculators are strictly prohibited.
3. Writing anything on question paper is not allowed.
4. Exchange/Sharing of anything like stationery, calculator is not allowed.
5. Assume suitable data if necessary.
6. Write your MIS Number on Question Paper

Solve any 6 questions of the following

- Que. 1(a) Explain procedure for Purification of water with diagram. (5 marks)  
(b) Write down requirements for pumping station (5 marks)

Que. 2 Write down design guidelines for water distribution system (10 marks)

Que. 3 Explain building planning for fire safety including (10 marks)

1. entrance width
2. height clearance
3. setback for buildings
4. car parking
5. staircase
6. lift
7. refuse Area
8. service duct
9. Water tank capacity.

Que. 4(a) Explain electricity distribution system in detail with diagram. (5 marks)

(b) What is Load Forecasting? Mention types of load forecasting. (2 Mark)

(c) State various factors which are affecting load forecasting (2 Mark)

Que. 5(a) Explain Public private partnership (PPP) in Infrastructure projects. (5 marks)

(b) Draw typical project finance structure. (5 marks)

Que. 6(a) What is basic need approach? Major problems in basic needs approach (5 marks)

(b) Write down advantages and disadvantages Basic need approach (5 marks)

Que. 7(a) Explain cost recovery of infrastructure services (5 marks)

(b) Explain role of regional planner in providing networks and services. (5 marks)

Que. 8. Write short notes on any two of the following (10 marks)

(a) Types of Contracts (PPP)

(b) National Grid Network

(c) Wet riser system

(d) Drencher System