

End Semester Examinations - 2015-16 Even Semester - May 2016

14CE2011 Water Resources Engineering

**Set
A**

**Time : 3 hrs
Total Marks: 100**

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|----|----|----|--|-------------|
| 1. | 1. | a) | Explain in detail with sketch about the "Hydrologic Cycle"? | |
| | | | (10 marks) | |
| | | b) | List out the factors affecting runoff and the basic concepts of rainfall runoff model | |
| | | | (10 marks) | |
| | | | OR | |
| 2. | 2. | a) | List out 1) the different forms of precipitation and 2) explain about the
1) Infiltration & Infiltration indices ? | (5+5 marks) |
| | | b) | Explain in detail about the a).Unit Hydrograph b) S-Hydrograph ? | (5+5 marks) |
| 3. | 3. | a) | Explain in detail with sketch about the "Types of Aquifer" ? | (10 marks) |
| | | b) | Explain about 1) Artificial recharge 2) Conjunctive use of surface and ground water ? | (5+5 marks) |
| | | | OR | |
| 4. | 4. | a) | Explain about 1. Pumping Tests 2) Recuperation Test ? | (5+5 marks) |
| | | b) | Explain about 1) permeability and 2) Transmissibility? | (5+5 marks) |
| 5. | 5. | a) | Explain in detail with sketch about the "Irrigation methods" ? | (10 marks) |
| | | b) | Explain in detail about "Participatory Irrigation Management" ? | (10 marks) |
| | | | OR | |
| 6. | 6. | a) | Explain with sketch about the 1)"Sprinkler Irrigation" and
2). "Drip Irrigation " ? | (5+5 marks) |
| | | b) | Explain about the 1) Evaporation & transpiration and
2) Command area and crop period ? | (5+5 marks) |
| 7. | 7. | a) | Explain with sketch about 1).Slow sand filter and 2) . Rapid sand filter? | (5+5 marks) |
| | | b) | Explain in detail about the "Estimation of water requirement for a region"? | (10 marks) |
| | | | OR | |
| 8. | 8. | a) | Explain with sketch about the water distribution system 1) Grid system and 2) Dead end system ? | (5+5 marks) |
| | | b) | Define the "per capita demand" and list out the methods for forecasting the "future population" ? | (5+5 marks) |
| 9. | 9. | a) | Explain with sketch about the "Basic Components of hydro-electric projects" ? | (10 marks) |
| | | b) | List out the importance points for 1) Selection of a site for a Reservoir construction and 2) Classification of Dams ? | (10 marks) |
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Wishing you All the Best
