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| E.G.S-Pillay-Engineering-College-Logo.jpg | **https://www.anexia-it.com/fileadmin/_processed_/csm_iso-9001-logo_01_1f19c84ee4.pngE.G.S. PILLAY ENGINEERING COLLEGE**  Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai  Accredited by NAAC with ‘A’ Grade | An ISO 9001 : 2008 Certified Institution  **NAGAPATTINAM – 611002 TAMIL NADU INDIA**  Ph : 04365-251112 / 251114 | E-mail:enquires@egspec.org | Website : www.egspec.org |  |

**MODEL EXAM**

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| Sem & year | | : VII & IV | Date & Session | : .2016 & AN | | | |
| Branch | | : CIVIL B | Max. Time | : 3 Hours | | | |
| Subject Code | | : water resources and irrigation  engineering | Subject Code | : CE6703 | | | |
| Staff Name | | E.VENKATESAN | Max. Marks | : 100 marks | | | |
| Q.No. | PART-A ANSWER ALL THE QUESTIONS (10X2=20 Marks) | | | | M | CO# | BL |
| 1. | Define resesrvoir. | | | | 2 | 1 | R |
| 2. | Define metrology | | | | 2 | 1 | R |
| 3. | What is the Need for National Water policy? | | | | 2 | 2 | R |
| 4. | Define water budget. | | | | 2 | 2 | R |
| 5. | Distinguish between the gross command area and cultivable command area? | | | | 2 | 3 | R |
| 6. | Write short note on (i) Crop Period (ii) Rotation Period | | | | 2 | 3 | R |
| 7. | What is meant by canal drop? | | | | 2 | 4 | R |
| 8. | What is an aqueduct? | | | | 2 | 4 | U |
| 9. | Differentiate b/w surface and sub-surface irrigation. | | | | 2 | 5 | R |
| 10. | Discuss the term irrigation management. | | | | 2 | 5 | R |

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| Q.No. | PART-B ANSWER ALL THE QUESTIONS (5X16=80 Marks) | M | CO# | BL |
| 11.a | What are the various types of data required for water resources planning and development.explain and details. | 16 | 1 | R |
| 11.b | How will you fix the capacity of reservoir? Explain. | 16 | 1 | R |
| 12.a | What is the Necessity of National Water Policy? Explain | 16 | 2 | U |
| 12.b | Define Master Plan in water resources? Explain the scope and aims in detail. | 16 | 2 | R |
| 13.a | Explain in detail about irrigation efficiencies. | 16 | 3 | R |
|  | (OR) |  |  |  |
| 13.b | With a neat sketch, explain the modes of applying water to Crops. | 16 | 3 | R |
| 14.a | (i)Explain the classification of dams with examples.  (ii)Discuss about the points to be considered for selection of site for a Dam | 16 | 4 | R |
|  | (OR) |  |  |  |
| 1 14.b | Explain the kennedy”s and lacey’s theories of canal design. | 16 | 4 | U |
| 15.a | Briefly explain about irrigation management in India and Tamil Nadu. | 16 | 5 | R |
|  | (OR) |  |  |  |
| 15.b | Write short note on tank and well irrigation with its advantages and disadvantages. | 16 | 5 | R |