

**11097****Code : 15AR32T***Register  
Number*

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**III Semester Diploma Examination, April/May-2018****BUILDING SERVICES - I****Time : 3 Hours ]****[ Max. Marks : 100**

- Note :** (i). Answer any **six** full questions from Part – A  
(ii) Answer any **seven** full questions from Part – B

**PART – A**

1. Explain underground source of water. 5
2. Explain socket and spigot joint with a sketch. 5
3. List the requirements of water supply system. 5
4. State the purpose of sanitation. 5
5. Illustrate the various steps involved in pipe laying & jointing. 5
6. Define trap and state its characteristics. 5
7. List the sources of air pollution. 5
8. Differentiate between natural lighting and artificial lighting. 5
9. Define rural sanitation and list the aspects of rural sanitation. 5

**PART – B**

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| 10. List quantity of water required for various purposes in domestic purposes.  | 10 |
| 11. Explain PUC pipe with its advantages and disadvantages.   | 10 |
| 12. Define fire hydrants and explain different types of fire hydrants.  | 10 |
| 13. Explain with neat sketch gravity and pumping system of distribution of water.                                       | 10 |
| 14. State the general principles of house drainage.   | 10 |
| 15. Differentiate between :<br>(a) Sullage and sewage<br>(b) Vent pipe and Anti-syphonage pipe                          | 10 |
| 16. Explain septic tank with a sketch.  | 10 |
| 17. List various electrical fittings used in residential building also show the symbolic representation as per IS code. | 10 |
| 18. Narrate the causes and effects of water pollution.  | 10 |
| 19. Explain biogas plant and state their advantages.  | 10 |
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