

PLUMBING SERVICES (AR-304)

Time: 3 Hours

Full Marks: 70

All questions are compulsory. Neat appropriate sketches will be given due credit.

1. State sequentially the steps involved in treatment of water to obtain potable one and define each of the steps. 2 + 5
  2. Define and explain the working principle of an 'Air relief valve'. 2 + 5
  3. Design a septic tank for an isolated building where seven families reside and draw neat sketch of its longitudinal section. Assume any data that is necessary for your design. 7 + 7
  4. What are the aims of designing a drainage system and how can these aims be realized? 2 + 5
  5. With a neat sketch explain the working of a drop manhole. 5 + 2
  6. Generally one uses a P-trap with a "sitting-type" water closet. Explain with sketches a building situation where one should use an S-trap with the same. 7
  7. The BESUS authority has decided to construct an isolated toilet block at the ground floor near the Netaji Bhavan which can be used by the Bhavan's visitors and the users of the newly constructed Canteen as well. What, according to you, should be the choice of the plumbing system? Justify. 7
  8. (a) Classify 'trap' on the basis of their use and / or location. 2  
(b) Compare the various provisions of 'inlet' and 'outlet' pipes in different trap chambers and septic tank. 12
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