Printed Pages: 01 Sub Code: NAR206
Paper Id: 181211 Roll No.

B ARCH (SEM II) THEORY EXMINATION 2017-18 ARCHITECTURAL SERVICES-1

Time: 3 Hours Total Marks: 100

Note:

- Read instructions carefully, attempt accordingly.
- All sections are compulsory.
- Support your answer with neat sketches

SECTION - A

1. Write short notes on followings

10X2=20

- a. Over head tank
- b. Urinal
- c. Refuse
- d. Sewer
- e. Jointing
- f. Hot water
- g. Cold Water
- h. Garbage
- i. Drainage
- j. Sanitary

SECTION - B

2. Attempt any five questions. All questions carry equal marks.

5x10=50

- a. What are the purposes for treatment of water?
- b. Explain few ways by which water can be treated at domestic level.
- c. Explain different systems of drainage for removing discharge from residential building.
- d. Explain circular & redial method of distribution.
- e. Explain continuous and intermittent water supply.
- f. Difference between Gravity & Pumping method of distribution
- g. What is hardness of water explain permanent hardness of water
- h. Write detail notes on detection & prevention of wastage of water in the distribution system.

SECTION - C

3. Attempt any two questions. All questions carry equal marks.

2X15 = 30

- a. What is a septic Tan? Describe various principles involved during construction of a septic tank?
- b. Draw a typical arrangement of wastewater from a toilet and a kitchen in a residential building. Give details for Nahni Trap, Gulley Trap and Manhole.
- c. Design a public toilet for an office building as mentioned below:
 - (i) W. C. (Indian) 3 Nos.
 - (ii) Urinal 3 Nos.
 - (iii) Wash Basin 2 Nos.

Draw Lay out plan showing the detail of various sanitary appliances with their connectivity to the inspection chamber to the private sewer line.