Printed Pages: 02 **Subject Code: NAR206**

Paper Id: 181240 **Roll No:** | | | | | | | | | | |

B. ARCH.
(SEM II) THEORY EXAMINATION 2018-19
ARCHITECTURAL SERVICES - II

Time: 3 Hours ***Total Marks:50***

Notes: *Assume any Missing Data.*

SECTION- A

Q.1. Write short notes of the following: **(5X 2 =10)**

(a) Clean outs
(b) Bidets
(c) Septic tank
(d) Urinals
(e) Relief valve
(f) Jet pumps
(g) Infiltration galleries

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SECTION-B

Q.2. Attempt any three of the following. **(5 X 3 = 15)**

(a) Explain briefly the various stages involved in treatment of water in ' treatment plant'.
(b) Explain various methods of rain water harvesting.
(c) Explain the hot and cold water supply in a residential building of two storey.
(d) Why do we need protected water supply scheme . Explain
(e) Which system of discharge disposal will be preferred in the areas where municipal under ground sewage system is not available. Explain with proper details.

SECTION-C

Q.3. Attempt any *one* part of the following: **(5 X 1=5)**

(a). What are the purposes for treatment of water?
(b). What are the general conditions to be observed in the planning of distribution of water?

Q.4. Distinguish between the following. Attempt any five: **(5 X 1=5)**

(a) Artesian spring and gravity springs.
(b) Arithmetical increase method and incremental increase method of calculating future population.
(c) Temporary and permanent hardness of water.
(d) Water softening and disinfection of water.
(e) Intermittent and continuous supply of water.
(f) Circular and radial method of distribution of water supply.
(g) Air relief and check valve in water supply scheme.

Q.5. Attempt any *one* part of the following: **(5X1=5)**

(a). Design a toilet on ground floor attached with master bed room as mentioned below:

i). W.C. (European) 1no.
ii). Bidet 1no.
iii). Bath tub 1no.
iv). Counter wash Basin 1no.

(b). Explain **any five** with proper sketches:

i). Pedestal Wash Basin
ii). Gate Valve
iii). Water Closet
iv). Lamp hole
v). Gulley Trap
vi). Vent Pipes

Q.6. Explain with the help of sketehes different type of traps. What are essential requirements of a good trap? Enumerate different causes of breaking of water seal of a trap. **(5X1=5)**

Q.7. Explain the following. Attempt any five: **(5X1=5)**

(a) PH value of water.
(b) Aquifers
(c) Intake works.
(d) Bell and spigot joint
(e) Potable water
(f) Porosity of soil
(g) Detention tank in treatment of water.

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