

BACHELOR OF ARCHITECTURE (B. ARCH.) (CBCS - 2020 COURSE) B. Arch.
Sem-III : WINTER : 2021
SUBJECT: BUILDING SERVICES-I

Day :Monday
Date :27-12-2021

W-23125-2021

Time : 10:00 AM-12:30 PM
Max.Marks 60

N. B. :

- 1) **Q. No. 1 & Q. No. 5 is COMPULSORY.** Attempt **ANY TWO** questions out of **Q. No. 2,3,4 and Q. No. 6,7,8.**
- 2) Answers to each section should be written on **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.
- 4) Answers should be written in legible hand and neat, annotated sketches to be drawn wherever necessary.

SECTION – I

- Q.1** What are the functions of valves? Draw neat sketches and describe the use of any three types of valves. **(10)**
- Q.2** a) Write a short note on Ferrule connection. Draw neat sketches **(05)**
b) Write a short note on RCC over head water tank. Draw neat sketches **(05)**
- Q.3** a) Describe any two city level water distribution patterns. Draw neat sketches. **(05)**
b) Describe jointing of any two types of pipes in water supply system. Draw neat sketches. **(05)**
- Q.4** a) Write a short note on water treatment and purification. **(05)**
b) Write a note on centrifugal pump. Draw neat sketches **(05)**

SECTION - II

- Q.5** What are the different fittings, fixtures used in sanitation services? Give details of any two. **(10)**
- Q.6** Assuming an individual residence comprising of two bed rooms, drawing hall, a kitchen and two toilets, indicate its drainage layout. **(10)**
- Q.7** a) Explain various principles of sanitation. **(05)**
b) Write a short note on septic tank and draw its sketch. **(05)**
- Q.8** Make a list of various drain tests for a newly laid house drainage system and describe in detail any two of them. **(10)**

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