

AU – 2691

Fifth Semester B. Arch. (CGS) Examination

BUILDING SERVICES AND EQUIPMENTS

Paper – 5 AR 02

(USC – 10038)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions carry marks as stated.
(2) Answer **Four** questions.
(3) Question No. **Five** is compulsory.
(4) Due credit will be given to neatness and adequate dimensions.
(5) Assume suitable data wherever necessary.
(6) Illustrate your answer wherever necessary with the help of neat sketches.
(7) Use pen of Blue/Black ink/refill only for writing the answer book.

1. (a) Describe with the help of neat sketches, How will you give water supply to High-rise and low rise buildings ? 9
(b) Describe the various types of "physical impurities" present in water. What are their harmful effects on public health ? 6
(c) What do you know about the intermittent system of water supply ? State their merits and demerits. 5

OR

2. (a) Describe with the help of neat sketches the various types of water storage Reservoirs. 7
(b) Draw neat sketch of "Solar Water Heater" and Explain its function and working. 7
(c) Define the terms any **Three** :
(i) Sewage.
(ii) Garbage.
(iii) Lateral sewer.

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P.T.O.

- (iv) Cowl.
- (v) Self cleansing velocity of sewer. 6

- 3. (a) Draw neat sketch of a "Commode" with flushing cistern and explain its working and function. 7
- (b) Sketch the various types of "Water taps". 6
- (c) Describe How you will calculate water demand for various uses. 7

OR

- 4. (a) Draw neat sketch of public toilet block with various types of toilet fittings. 7
- (b) Describe with neat sketches the various types of water supply pipes and their fittings. State their advantages and disadvantages. 7
- (c) Draw an Electrical lay-out for a 1-BHK flat by using standard electrical symbols. 6

- 5. Describe with the help of neat sketches any **Four** of the following :

- (1) MAN-HOLE.
- (2) Indian-type water closet with trap.
- (3) In-lets.
- (4) Wash-Basin.
- (5) Kitchen sink with Hot and cold water supply.
- (6) Geysers.
- (7) Electrical appliances. 20

- 6. (a) State and explain the importance of "traps" in House drainage system. How are they classified according to use ? 8

- (b) What do you know about "water carriage" lane system ? Why is it more popular now a days ? 6
- (c) Describe with neat sketches the sewage disposal system from starting point to final point of disposal. 6

OR

- 7. (a) State the advantages and disadvantages of conservancy lane system. 8
- (b) Explain with neat sketches the various types of systems of wiring for electrical distribution. 7
- (c) Draw neat sketches of P, Q, S, Traps and show water seal in them. 5

