

GANPAT UNIVERSITY

B.Tech. Sem. V(Civil) , Regular Examination –November / December: 2012

2CI506- Building Services

Max.Time: 3 Hours

Max. Marks: 70

Exam. No. of the candidate: _____ Supervisor's dated initial: _____

- Instructions: -**
- (1) Answer to the two sections must be written in **separate** answer books.
 - (2) Figures to the **right** indicate **full** marks.
 - (3) Assume suitable data if required.

Section - I

Q-1 Answer The Following.

- (A) Explain typical a.c. power supply scheme. (06)
(B) Describe characteristics of fuse element and explain low voltage fuses. (06)

OR

- Q-1 (A) What is Grounding? Explain Neutral Grounding. (06)
(B) Explain Solid Grounding. (06)

Q-2 Answer The Following.

- (A) Write a short note on : (06)
(a) Packaged air – conditioners.
(b) Room air – conditioners.
(B) Define: Elevator and Explain types of elevator. (05)

OR

- Q-2 (A) Give the classification of air conditioning. (06)
(B) Define following : (05)
(a) Bumper
(b) Escalator.
(c) Hoist way.

Q-3 Answer The Following.

- (A) Write a note on fire resistant construction. (06)
(B) What do you understand by the term major energy loss and minor energy loss in pipes? (06)

Section - II

Q-4 Answer The Following.

- (A) Which are the measures for the safety and precaution while doing house plumbing work? Draw neat sketch of two – pipe system. (06)
(B) Write a note on sewers joints. (06)

OR

- Q-4 (A) Define Traps and explain types of Traps. (06)
(B) What are the differences between drains and sewers? What are the requirements of an ideal drain section? With the help of neat sketches describe various drain section. (06)

Q-5 Answer The Following.

- (A) Explain various components of rain water harvesting system in detail. (06)
(B) Explain water supply requirements in buildings. (05)

OR

- Q-5 (A) Define drainage of house and explain principles of house drainage. (06)
(B) Write a short note on commissioning of septic tank with neat sketch. (05)

Q-6 Answer The Following.

- (A) Define manhole. Explain drop manhole with neat sketch. (06)
(B) Define following terms : (06)
(a) Conduits.
(b) Sluice valve.
(c) Back syphonage.

End of Paper