

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination

Semester: 6th
 Subject Code: 03605391
 Subject Name: Building Services and Maintenance

Date: (24/01/2023)
 Time: (1hr: 30min)
 Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

| Q.1 Answer any six out of Ten. (2 Marks Each) | (12) | CO/PO NAME | Blooms Taxonomy Words |
|--|-------------|------------|-----------------------|
| 1. Define building services. | | CO1 | Knowledge |
| 2. Define lift. | | CO1 | Understand |
| 3. Give aims of good lighting | | CO1 | Apply |
| 4. Define Escalator. | | CO2 | Knowledge |
| 5. Define Ramp. | | CO1 | Apply |
| 6. Explain Lift well | | CO3 | Understand |
| 7. What is Acoustic. | | CO3 | Knowledge |
| 8. Examples of institutional building | | CO2 | Knowledge |
| 9. Define solar water heating system | | CO4 | Understand |
| 10. Give objectives of building services | | CO3 | Apply |
| Q.2 A) List various building services and write their uses. | (03) | CO1 | Apply |
| OR | | | |
| A) Explain objectives of vertical communication in a building | (03) | CO2 | Apply |
| B) Give the classification of buildings as per NBC 2005 & explain anyone. | (03) | CO3 | Understand |
| OR | | | |
| B) Enlist points to be considered for the routine maintenance of lifts | (03) | CO3 | Knowledge |
| C) How to do Maintenance of Lift. | (04) | CO2 | Knowledge |
| OR | | | |
| C) List out different types of Escalators & explain anyone. | (04) | CO1 | Apply |
| D) Explain role & responsibilities of building service engineer. | (04) | | |
| Q.3 A) Explain quality of service and quantity of service in lift with respect to lift planning. | (03) | CO2 | Understand |
| OR | | | |
| A) Write advantages of Escalator. | (03) | CO2 | Knowledge |
| B) Give the minimum dimensions of the lift car and lift well for passenger lift of 6 capacity. | (03) | CO1 | Evaluate |
| OR | | | |
| B) Define <ul style="list-style-type: none"> • lift Car • Lift Pit • Machine Room | (03) | CO2 | Knowledge |
| C) Write basic components of Escalators with near sketch | (04) | CO2 | Understand |
| OR | | | |
| C) Why Necessity of Ramp is required? | (04) | CO3 | Apply |
| D) What are the special features required for physically handicapped and elderly people for Ramp. Explain it. | (04) | CO1 | Knowledge |
