Seat No.:	Enrolment No	
GUJARAT TECHNOLOGICAL UNIVERSITY DIPLOMA ENGINEERING – SEMESTER –III • EXAMINATION – WINTER 2015		
Subject Code: 3336206 Subject Name: Building services	Date: 08- 12- 2015	
Time: 10:30 AM TO 12:30 PM	Total Marks: 70	
<ol> <li>Instructions:         <ol> <li>Attempt all questions.</li> <li>Make Suitable assumptions wherever necessa</li> <li>Figures to the right indicate full marks.</li> <li>Use of programmable &amp; Communication aids</li> <li>Use of only simple calculator is permitted in M</li> <li>English version is authentic.</li> </ol> </li> </ol>	are strictly prohibited.	
<ul> <li>Q.1 Answer any five from the following:</li> <li>1. What is evaporator?</li> <li>2. What is Earthing?</li> <li>3. Write full forms. 1) CFL 2) LED</li> <li>4. Sketch triangle of fire.</li> <li>5. What is condenser?</li> <li>6. Mention the components of a lift.</li> <li>7. What is a dumb waiter?</li> <li>8. What is air circuit breaker?</li> </ul>	10	
Q.2 (a) What is fire fighting system?  OR  (a) Explain with sketches refrigeration.	3	
<ul><li>(b) Describe passenger lift with neat sketch. OR</li><li>(b) What is fire? Describe types of fire.</li></ul>	3	

4

4

3

3

(c) What is HVAC? Describe purpose and uses of it.

OR (c) What are the sources of light? Explain each.

(a) What is the advantage of air conditioning?

Q.3 (a) List noncombustible materials.

	(b) Explain types of wiring.  OR	3
	(b) What is a window AC? Describe with neat sketches.	3
	(c) What is an escalator? Where is it used?	4
	OR (c) What is the difference between natural light and artificial light?	4
Q.4	(a) What do you understand by uninterrupted power supply? OR	3
	(a) What are sprinklers? How does it help in fighting fire?	3
	(b) What is the basic principle on which an air conditioner works?  OR	3
	(b) Write common causes of fire.	3
	(c) Explain in detail types of air conditioners.  OR	4
	(c) What is High Intensity Discharge lamp? Where is it used?	4
Q.5	(a) Draw an electrical layout of a bed room 4m X 3m along with its attached toilet measuring 1.5m X 2m.Indicate all possible fixtures and fittings.  OR	5
	(a)Describe an incandescent lamp with detailed sketch.	5
	(b) Explain working of a lift with neat n labeled section and plan.  OR	5
	(b) Explain possible fire risk in office building.	5