

**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Sc.(HMCT) (2011 & Onwards) (Sem.-2)**

**HOTEL ENGINEERING**

Subject Code : BSHM-205

Paper ID : [C1112]

**Max. Marks : 60**

**Time : 3 Hrs.**

**INSTRUCTION TO CANDIDATES :**

- INSTRUCTION TO CANDIDATES :**
- 1. SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
  - 2. SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
  - 3. SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

## SECTION-A

1. Write briefly :
  - a) Hotel Maintenance
  - b) Renovation
  - c) Ohm's Law
  - d) Passenger Elevators
  - e) Fire Alarms
  - f) Solar cooker
  - g) Dumb Waiters
  - h) Fire Hazards
  - i) Water closet
  - j) Bunsen burner

1 | M Code 12081

(S2)-247

### SECTION-B

2. What are the various uses of electricity in hotel?
3. Write the duties of the maintenance engineer.
4. What are the various sources of water used in hotels?
5. What is DC and Ac supply?
6. Classify various types of maintenance.

### SECTION-C

7. On what basis hotel are classified? Write about 5 star, 4 star and 3 star hotels.
8. Write about different types of fire extinguishers.
9. What is a fuse and what is its importance? Explain the various types of fuses used in electric circuit.

**Roll No.**

**Total No. of Questions : 09**

**B.Sc.(HMCT) (2011 & Onwards) (Sem.-2)**

## HOTEL ENGINEERING

**Subject Code : BSHM-205**

Paper ID : [C1112]

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTION TO CANDIDATES :**

- INSTRUCTION TO CANDIDATES :**
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
  2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
  3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

### SECTION-A

1. Write briefly :
  - a. Differentiate between open and closed circuits.
  - b. Name **any two** methods of removal of water hardness.
  - c. Give the uses of water traps.
  - d. Name different types of fire extinguishers.
  - e. Give the classification of hotels.
  - f. What principle is applied to Bunsen burner working?
  - g. What are sinks and basins?
  - h. What is a dumb waiter?
  - i. Give the difference between AC and DC.
  - j. Mention **any two** duties of the maintenance staff.

1 | M Code 12081

(S2)-125

### SECTION-B

2. Explain the methods to remove water hardness.
3. Explain the different types of fires.
4. What are the different precautions while using fuels?
5. Give the meaning of ampere, volt, ohm and their relation with each other.
6. With a neat diagram draw the hierarchy of the maintenance department of a 300 room hotel.

### SECTION-C

7. Give the construction of an industrial gas range.
8. Explain the operation and maintenance of escalators and sidewalks.
9. Give the general layout of circuits alongwith a neat diagram.

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Questions: 09

Total No. of Pages: 02

**B. Sc. (HMCT) (Sem. 2)**  
**HOTEL ENGINEERING**  
Subject Code: BSHM-205  
Paper ID: C1112

Time: 3 Hrs.

Max. Marks: 60

**INSTRUCTIONS TO CANDIDATES:**

1. Section A is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. Section B contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. Section C contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

**SECTION A**

1. All questions are compulsory:
  - a. Define Convection.
  - b. What is breakdown Maintenance?
  - c. Write sources of Water?
  - d. What is Flash Point?
  - e. Define BTU.
  - f. What do you understand by Earthing?
  - g. What is Cistern?
  - h. Define class 'C' Fire.
  - i. Define Escalators.
  - j. What is the reason for temporary hardness in Water?

**SECTION B**

2. Write duties and responsibilities of an Electrician in a Hotel?
3. What are the reasons for different types of hardness found in water?
4. What precautions will you take to avoid fire or minimize the effects of Fire?
5. How many types of fuels are available for use in Catering Industry?

Page 1 of 2

| M12081

6. Briefly explain different types of Electric Circuit.

### SECTION C

7. Classify Fire and suggest appropriate fire extinguisher for each class of Fire?
8. What safety measure should you consider while using passenger elevator in the Hotel?
9. What do you understand by AC & DC? Differentiate between these two.



Roll No.

Total No. of Questions: 09

Total No. of Pages: 02

**B.Sc. (HMCT) (2011 & Onwards) (Sem. – 2)**  
**HOTEL ENGINEERING**

M Code: 12081

Subject Code: BSHM-205

Paper ID: [C11112]

Time: 3 Hrs.

Max. Marks: 60

**INSTRUCTIONS TO CANDIDATES:**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

#### SECTION A

1. Explain in 50 words
  - a) Striking back
  - b) Conductor
  - c) Short circuit
  - d) Calorific value
  - e) Escalators
  - f) Fire hazards
  - g) Water seal
  - h) Class B fire
  - i) BTU
  - j) Electric eye

#### SECTION B

2. Explain the care and maintenance of the detection, fire alarm and fire extinguishing equipment.
3. Differentiate between A/C and D/C and give their advantages and disadvantages.
4. Discuss the duties and responsibilities of the Chief Engineer of hotel.
5. Write short note on "Freight Elevators"
6. Principle of Bunsen burner.

#### SECTION C

7. "The Engineering department works almost completely behind the scenes, but it fulfils a tremendously important function." Discuss.
8. Why earthing is done? What are the various points to be remembered while earthing? What are the factors on which earth resistance depends? What are various methods of earthing?
9. What is Maintenance? What are the objectives of hotel maintenance? Classify various types of maintenance.

**Total No. of Pages : 02**

**B.Sc.(HMCT) (2013 to 2017 Batch) (Sem.-2)**

**Subject Code : BSHM-205**

Subject Code : BSHM-  
Paper ID : [C1112]

**Max. Marks : 60**

**INSTRUCTION TO CANDIDATES :**

- 1. SECTION-A is COMPULSORY** consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE** questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE** questions carrying TEN marks each and students have to attempt any TWO questions.

**Q1) Answer briefly :**

- a) What is Fire Hazard?
- b) Write briefly on Escalator.
- c) Why Fire alarm is important?
- d) Define Heat.
- e) Define Volt.
- f) What is Ohm?
- g) Write a note on Sink.
- h) Write full form of L.P.G.
- i) Define Preventive Maintenance.
- j) What is W.C.?

- Q2) What precaution we should take while using Electrical Equipments?
- Q3) Discuss the role of engineering department in Hotel Operations.
- Q4) What do you understand by closed circuit?
- Q5) Explain the principle of Bunsen Burner with the help of neat diagram.
- Q6) What are the different sources of water available with a brief reference of its Quality?

Q7) Explain different types of Fire Extinguishers.

Q8) What are the different methods of Fuels used in Hotel Industry?

Q9) Explain different methods of removing Permanent Hardness.