

ROLL No.....

NATIONAL COUNCIL FOR HOTEL MANAGEMENT  
AND CATERING TECHNOLOGY, NOIDA  
**ACADEMIC YEAR – 2015-2016**

COURSE : 1<sup>st</sup> Semester of 3-year B.Sc. in H&HA  
SUBJECT : Hotel Engineering  
TIME ALLOWED : 03 Hours MAX. MARKS: 100

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(Marks allotted to each question are given in brackets)

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Q.1. What is LPG? Explain its advantages and dis-advantages.

**OR**

What are the precautions to be taken while using gas?

(10)

Q.2. Draw an organizational chart of maintenance department of a 500 room hotel. List **five** important responsibilities of a Chief Engineer.

(10)

Q.3. Explain various classes of Fire and also mention types of extinguishers used.

(10)

Q.4. What are the different ways in which hard water can be treated for further use?

(10)

Q.5. Write short notes on **any two**:

- (a) Sensor
- (b) Methods of Waste Disposal
- (c) Air conditioning and refrigeration
- (d) Base exchange method

(2x5=10)

Q.6. (a) Discuss the role of fuse in an electric circuit.

(b) What is the role of an insulator in electricity?

**OR**

Explain the circumstances under which equipment are replaced.

(10)

Q.7. What is Green hotel? What are the different ways to control pollution in hotels?

**OR**

What are the different types of maintenance? List the advantages and dis-advantages of contract maintenance.

(10)

Q.8. I Write the full form of the following (**any five**):

- |           |          |
|-----------|----------|
| (a) HWC   | (b) BTU  |
| (c) CHU   | (d) CVGR |
| (e) HACCP | (f) J    |
| (g) CFC   |          |

II Discuss care and cleaning of audio-visual equipment in hotels.

(5+5=10)

Q.9. Explain vapour compression system of refrigeration.

(10)

Q.10. Calculate the electricity bill for December 2014 for the following appliances:

Tariff: Rs.5/- per unit

(a) 1000W bulb	10 nos.	8 hrs./day
(b) 1.5 KW heater	2 nos.	4 hrs./day
(c) 1.5 KW A.C.	1 no.	4 hrs./day
(d) 40W tube light	10 nos.	8 hrs./day

(10)

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