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Reg. No.....

Name.....

**BACHELOR OF HOTEL MANAGEMENT DEGREE
EXAMINATION, JANUARY 2026**

Fourth Semester

HOTEL ENGINEERING

(2017–2019 Admissions – Supplementary/2014–2016 Admissions – Mercy Chance)

Time : Three Hours

Maximum Marks : 80

Part A

*Answer **all** the questions.
Each question carries 1 mark.*

1. Breakdown maintenance is also known as ——— maintenance.
2. Proper maintenance increases the life span of hotel ———.
3. The Bunsen burner is mainly used in ———.
4. The amount of heat produced by fuel depends on its ——— value.
5. The device used to protect circuits from overload is called ———.
6. AC stands for ——— Current.
7. The process of removing heat from a space is called ———.
8. Removal of moisture from air is known as ———.
9. Fire extinguishers are used to control ———.
10. Structural protection helps reduce the ———.

(10 × 1 = 10)

Part B

*Answer any **eight** questions.
Each question carries 2 marks.*

11. Define Preventive Maintenance.
12. List any four duties of the maintenance department.
13. What is meant by an organizational chart ?
14. State any two properties of LPG.
15. What is a Bunsen burner ?

Turn over





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16. Mention two precautions while handling gas.
17. What is meant by short circuit ?
18. Define Calorific value.
19. Write a note on refrigeration.
20. What is dehumidification ?
21. What is structural fire protection ?
22. List out any two methods of extinguishing fire.

(8 × 2 = 16)

Part C

*Answer any **six** questions.
Each question carries 4 marks.*

23. Differentiate between the preventive maintenance and breakdown maintenance.
24. Elaborate the organizational structure of a hotel maintenance department.
25. Describe the precautions to be taken while handling gas cylinders.
26. Identify the factors affecting heat output in burners.
27. Elucidate the safety precautions to be followed while using electrical appliances.
28. Discover the main functions of fuses and MCB.
29. Summarize the care and maintenance of refrigerators.
30. Outline the conditions required for human comfort in air conditioning.
31. Explain the functions of fire detectors and alarms.

(6 × 4 = 24)

Part D

*Answer any **two** questions.
Each question carries 15 marks.*

32. Discuss the principle of working and uses of low-pressure and high-pressure gas burners.
33. Calculate the electricity bill for 60 days having the following electrical load, cost of electric energy is Rs. 6 per unit :

40 watt	Tube lights	15 Nos.	8 hours/day
60 watt	Fans	10 Nos.	7 hours/day
3 kW	Hot Plate	4 Nos.	6 hours/day
6 kW	Boiler	2 Nos.	4 hours/day
18 kW	Oven	2 Nos.	4 hours/day





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34. Illustrate the different types of air conditioning systems and their maintenance procedures.
35. Demonstrate the procedure for automatic fire detectors-cum-extinguishing devices.

(2 × 15 = 30)

