Total No. of Questions : 4] [Total No. of Printed Pages : 2

B. Sc. (Hospitality Studies) (Semester - III) Examination - 2017

HOTEL ENGINEERING306

(New 2008 Pattern)

Time : 3 Hours] [Max. Marks : 70

Instructions :

(1) Figures to the right indicate full marks.

(2) Black figures to the right indicate full marks.

(3) Neat diagrams must be drawn wherever necessary.

(4) Use of logarithmic tables, slide rule, Mollier charts, electronic

pocket calculator and steam tables is allowed.

Q.1) Answer the following : (Any Two) [20]

(a) Explain Vapour Compression Refrigeration System with the help of neat diagram.

(b) Draw neat sketch of Window Account. Distinguish between Split AC and Unitary AC.

(c) Give importance of Engineering Department in Hotel. Write duties and responsibilities of Chief Engineer.

Q.2) Solve any three : [15]

(a) ) Explain the effects of Air Pollution .

(b)List the properties of good refrigerant.

(c) What are the sources of Water Pollution in Hotel ?

(d) Write factors affecting Comfort of AC.

(e ) Give any two reasons for replacement of equipment.

Q.3) Answer any two : [20]

(a) What is Hard Water ? Explain Various plumbing fixtures.

(b) Explain classification of Fire. Give types of fire extinguishers.

(c) Calculate the electricity bill for month of April, 2016 with following electricity consumption :

TV 600 w 3 Nos. 6 hr./day

Iron750w 1 No. 1 hr./day

Tube Light 20 w 2 Nos. 2 hr./day

Oven 1. kw 2 Nos. 2 hr. /day

The cost of electricity is Rs. 5 per unit.

Q.4) Answer the following : (Any Three) [15]

(a) Importance of Earthing

(b) Explain importance of Energy Conservation in Hotel.

(c) Types of sanitary traps.

(d) Write short note on ‘Uses of Solar Energy in Hotel Industry’.

(e) Explain Down feed Cold and Hot Water Distribution System.

B. Sc. (Hospitality Studies) (Semester - III) Examination - 2017

HOTEL MAINTENANCE SERVICES(306)

Time : 3 Hours] [Max. Marks : 70

Instructions :

(1) All questions are compulsory.

(2) Answers to the two sections should be written in separate

answer-books.

(3) Black figures to the right indicate full marks.

(4) Neat diagrams must be drawn wherever necessary.

(5) Use of logarithmic tables, slide rule, Mollier charts, electronic

pocket calculator and steam tables is allowed.

Q.1) Answer any two : [2x10=20]

(a) Explain duties and responsibilities of Chief Engineer of a Hotel.

(b) Define Unit of Refrigeration and explain Vapour Compression Refrigeration System with block diagram.

(c) Describe types of Refrigerants and factors related to Human Comfort.

(d) Give different Sources of Noise and its adverse effect and also give controlling steps.

Q.2) Answer any three : [3x5=15]

(a) Draw any five Sanitary Traps..

(b) Give Maintenance of Swimming Pool.

(c) Define Contract and give its advantages and disadvantages

(d) Draw a diagram for up feed Water Distribution System in Hotel for cold and hot water.

(e) Explain Environmental Degradation.

Q.3) Solve any two : [2x10=20]

(a) Calculate electricity for the month of January having following electricity load :

(i) 80W Bulb 20 Nos. 06 hrs./day

(ii) 750W Hair Dryer 02 Nos. 1hr/day

(iii) 3 kW Heater 02 Nos. 03 hrs./day

(iv) 1000W Oven 01 No. 01 hr./day

The Cost of Electricity is Rs. 10.50 per unit.

(b) Give energy conservation tips in Kitchen and Front Office.

(c) Explain classification of Fire. Give types of fire extinguishers.

(d)Give Reasons for replacement of equipment

Q.4) Solve any three : [3x5=15]

(a) Draw diagram for Softening of Water by Ion Exchange Process and give its advantages.

(b) Differentiate between Fuse and Circuit Breaker and give types of both.

(c) Classify fuel and give importance of LPG in Hotel.

(d) Explain Importance of energy conservation..

(e) Draw diagram for CO2 Fire Extinguisher and how it is used ?