HS.206

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

THE SCIENCE OF HOTEL ENGINEERING

(New 2017 Pattern)

Time : 2 Hours] [Max. Marks : 40

Instructions :

1. Solve any four questions out of the given five

2) Neat diagrams must be drawn wherever necessary.

3) Black figures to the right indicate full marks.

4) Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.

5) Assume suitable data, if necessary.

(6) Figures to the right indicate full marks.

Q.1) Answer the following : (Any Two) [2x5=10]

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

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

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

Q.2) Answer the following : (Any Two) [2x5=10]

(a) Write short note on Ammonia as a Refrigerant.

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

(c) Write factors affecting Comfort of AC.

Q.3) Answer the following : (Any Two) [2x5=10]

(a) Explain types of fire extinguishers.

(b) What are various audio visual equipment used in hotel ? Explain maintenance of computers

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

Tube Light 20 w 3 Nos. 4 hr./day

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

Music System 600 w 3 Nos. 1 hr./day

The cost of electricity is Rs. 6 per unit.

Q.4) Answer the following : (Any Two) [2x5=10]

(b) Explain importance of Energy Conservation in Hotel.

(c) Draw any five Plumbing Fixtures.

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

Q5) Answer the following : (Any Two) ( 2x5=10)

(a) Explain the effects of Air Pollution on Human Body.

(b) What is Earthing ? State its importance.

(c) State and explain any five systems/devices in which energy can

be conserved in a Hotel.