ROLL No.....

## NATIONAL COUNCIL FOR HOTEL MANAGEMENT AND CATERING TECHNOLOGY, NOIDA ACADEMIC YEAR – 2019-2020

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	(Marks allotted to each question are given in brackets)	
Q.1.	<ul> <li>(a) Draw an organizational chart of a maintenance department of a large hotel.</li> <li>(b) Mention five activities undertaken for preventive maintenance.</li> <li>OR</li> <li>Name fuels used in hotel industry. What are the advantages and disadvantages of solid, liquid and gase</li> </ul>	(5+5=10) ous fuel? (10)
Q.2.	Draw a labeled diagrams of gas burner and describe L.P.G.	(5+5=10)
	<b>OR</b> Write a detailed note about different types of lights.	(10)
Q.3.	Write about sources and types of water. How would you convert temporary and permanent hard water to water?	
	<b>OR</b> Enlist <b>five</b> types of refrigerants used. Explain the functioning of window type air conditioner.	(3+7=10) (4+6=10)
Q.4.	<ul> <li>Write short notes on any two:</li> <li>(a) Cold water cistern swimming pool.</li> <li>(b) Central air-conditioning.</li> <li>(c) Fire extinguisher</li> <li>(d) Sewage treatment</li> </ul>	(2x5=10)
Q.5.	Explain in brief (any ten):(a)Air pollution(b)Sullage(c)Ignition temperature(d)Class 'C' fire(e)Humidification(f)R-717(g)Coupling / Union(h)V.I.R.(i)M.C.B.(j)H.R.C.(k)Closed circuit(l)B.T.U.	(10x1=10)
Q.6.	Calculate the electricity bill for the month of September 2019 having the following electric loads:	

100 W bulbs	10 Nos.	6 Hrs. / Day
60 W fans	10 Nos.	5 Hrs. / Day
3 KW heater	05 Nos.	5 Hrs. / Day
6 KW / boiler	02 Nos.	5 Hrs. / Day

Cost of electricity energy is Rs.4/- per unit.

(10)

- Q.7. List and explain various audio visual equipment used in hotels.
- Match the following: Q.8. Α
  - Solid fuel (i) Incandescent lamp (a) (b) Tungsten (ii) Zero potential (c) Earthing (iii) Helium Yellow colour Air conditioner (d) (iv) Compressor (e) (v) Coal
  - В State True or False:
    - 'EXIT' sign indicates entry door. (a)
    - U.P.S. stands for un-interrupted power source. (b)
    - The flow of electron is called current. (c)
    - The intensity of heat energy is denoted by temperature. (d)
    - Class 'D' fire is due to gases. (e)

(5+5=10)

(10)

Q.9. Define pollution. Explain different types of pollution.

> What is contract maintenance? What are the advantages and dis-advantages? What are the various types of contracts used? (10)

OR

- Q.10. Fill in the blanks:
  - is better than cure. (a)
  - (b) is a substance that produces useful heat or power when burnt.
  - (c) L.P.G. is a mixture of \_\_\_\_\_ and \_\_\_
  - (d) Measurement of light is given in \_\_\_\_
  - \_\_\_\_ is an effect of fuel, heat and oxygen. (e)
  - An agreement between two party enforceable by law is \_\_\_\_\_ (f)
  - O.H.P. stands for (g)
  - Closed circuit television is a form of \_\_\_\_\_\_ equipme The hotel is concerned with the \_\_\_\_\_\_ of the guest. (h) equipment.
  - (i)
  - An equipment replaced due to incapable of meeting the increasing demand is a replacement (j) because of

(10x1=10)

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