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| Name: | \$ |
| Roll No.: | A Alama Williamship and Explana |
| Inviailator's Signature : | |

CS/BHMCT/SEM-5 (PART-B)/HM-505/2012

2012 **FACILITY PLANNING - I**

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Assume reasonable value of additional data if required.

GROUP - A (Multiple Choice Type Questions)

Choose the correct alternatives for any ten of the following: 1.

 $10 \times 1 = 10$

- i) Facilities foreman looks after a) Repair b) Fire protection Building c) d) Power. Responsibilities of the maintenance department is ii) carpentry tinkering a) tailoring inspection. c) d) Convection is iii) Heat through solids a)
 - Heat from a hot object in straight rays b)
 - Heat through plastics c)
 - d) Heat through liquids.

B-2[Turn over

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b)

d)

Electricity

none of these.

Inflammable solids

Inflammable liquids

7 Lumen/9.29 cm square

10 Lumen/9.29 cm square

15 Lumen/9.29cm square 30 Lumen/9.29cm square.

Measure of Resistance d)

None of these.

Class B fire is

Steam

Metric oil

iv)

v)

vi)

vii)

a)

c)

a)

b)

c) d)

a)

b)

c)

d)

be

a)

b) c)

d)

a)

c)

a)

c)

ix)

viii) Diffused light is

Glare free

Watts is a measure of

Power

Glare Feckless

- Boiler applies to a devise for generating Water boiling None of these. The storage per ton space required for fuel of these in per ton space 26 m cube storage per ton space 23 m cube storage per ton space 11 m cube storage Inflammable electrical equipment Minimum lighting requirements in a restaurant should Glare full Glare feeble.

B-2

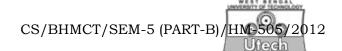
b)

d)

b)

Flow of current

Rate of flow of current.



- x) The fuses for lighting circuits should be
 - a) 5 amps
- b) 15 amps
- c) 20 amps
- d) 30 amps.
- xi) Distribution board is
 - a) Divided into sub circuits
 - b) Divided into partial circuits
 - c) Divided into semi partial circuits
 - d) Divided into mini circuits.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following.

 $3 \times 5 = 15$

- 2. Explain the types of maintenance in a star hotel.
- 3. Explain Conduction, Convection and Radiation.
- 4. Explain the Advantages and disadvantages of Electric cooking.
- 5. Explain the remedial measures in case of a fire in the hotel.
- 6. Define the terms: Volts, Ampere, Ohm.



GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. State and discuss the parameters which determine the quality of water. What are the water conservation techniques in a big hotel? $7\frac{1}{2} + 7\frac{1}{2}$
- What are the different types of electric motors used in the industry? Describe the principle of working of slip ring induction motor.
- 9. What are the conditions of comfort in a building? Describe the principle of operation of vapor compression system of airconditioning.

 5 + 10
- 10. State and discuss the factors and variables for the design of lighting system. State the methods of maintenance of lighting system highlighting the affects of maintenance on light outputs. $7\frac{1}{2} + 7\frac{1}{2}$
- 11. State and discuss the precautions to be taken for fire prevention in a hotel. Also discuss fire detection techniques to achieve fire safety in a hotel. $7\frac{1}{2} + 7\frac{1}{2}$
- 12. State and discuss the working principle of fuses and circuit breakers. With the help of neat diagram, explain how electric power is distributed through the distribution panel. $7\frac{1}{2} + 7\frac{1}{2}$