Name :	
Roll No. :	(A Alama Wanning and Explored
Invigilator's Signature :	

### CS / BHM (OLD) / SEM-6 / HM-608 / 2011

# 2011

# **ADVANCED ENGINEERING**

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.

# GROUP - A

### ( Multiple Choice Type Questions )

- 1. Choose the correct alternatives for the following :  $10 \times 1 = 10$ 
  - i) the convection oven can be electric or
    - a) gas
    - b) air
    - c) liquid.
  - ii) The coffee urn includes a vented water tank heated by electricity, gas or
    - a) heat
    - b) steam
    - c) fire.

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- iii) Food preparation equipment may include cutters, slicers ...... and vegetable peelers.
  - a) extinguishers
  - b) refrigerators
  - c) mixers.
- iv) Carbon dioxide or dry chemical acts as fire suppression agent for
  - a) Class A
  - b) Class B
  - c) both Class *A* and Class *B*.
- v) The glass windows manufactured with three layers of glass with sealed spaces in between and the spaces between outer and central glass filled with argon gas are called
  - a) heat mirror windows b) super glass windows
  - c) super smart windows d) none of these.
- vi) Smoke alarm uses a small amount of material that ionizes the air in the smoke sensing chamber contained in the detector. The material is
  - a) thermo electric b) radioactive
  - c) pressurized air d) heat conducting.
- vii) Permanent water hardness is removed by adding ...... in water.
  - a) lime
  - b) sodium carbonate
  - c) calcium sulphate
  - d) magnesium bicarbonate.

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viii) In the microwave oven heat is generated within the food and the oven remains cool.

- a) True b) False
- ix) In the swimming pool, soils, leaves, insects and debris are collected and removed by an arrangement of
  - a) spool sweeps b) vacuum cleaner
  - c) weir d) chemical treatment.
- x) For high quantity and small head, pumps to be used are
  - a) centrifugal pump
  - b) multistage turbine pumps
  - c) reciprocating pumps.

### **GROUP – B**

### (Short Answer Type Questions)

Answer any *three* of the following.  $3 \times 5 = 15$ 

- 2. Give the laundering cycle for no-iron linens which are medium or lightly soiled sheets, pillow cases and towels.
- 3. Write short notes on Traps and Vents.
- 4. Write short note on Jet Pump.
- 5. Write short notes on Parking and Walks.
- 6. What is acid rain ?

### GROUP – C

## (Long Answer Type Questions)

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

- 7. What are the different types of fire extinguishers and their respective uses.
- 8. Briefly explain the various types of private sewage disposal systems.

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- 9. Explain the factors causing air-pollution in a hotel and measures to check air pollution.
- 10. Briefly explain the various water distribution systems used in hospitality industry.
- 11. Discuss in detail the security system to be adopted in a hotel.
- 12. With the help of a layout of general space for laundry installation briefly explain the laundering process.

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