



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/BHM/SEM-6/HM-608/2010**

**2010**

**ADVANCE 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 any *ten* of the following :

10 × 1 = 10

i) Smothering in fire is

- a) Removing fuel
- b) Removing air
- c) Removing the heat
- d) None of these.

ii) Class C fire is

- a) Fires in inflammable liquids
- b) Fires in electrical equipment
- c) Fires occurring in ordinary dry combustible materials
- d) None of these.

iii) Halone gas when inhaled irritates :

- a) eyes
- b) ears
- c) skin
- d) throat.



- iv) Kitchen equipment may be divided into
  - a) four categories
  - b) three categories
  - c) two categories
  - d) none of these.
  
- v) Water hardness is caused by
  - a) Copper
  - b) Manganese
  - c) Iron
  - d) Calcium and Magnesium.
  
- vi) Micro wave is a method of cooking and heating food by using
  - a) High frequency power
  - b) Low frequency power
  - c) Medium frequency power
  - d) None of these.
  
- vii) A sign system is a comprehensive collection of
  - a) Visual communication
  - b) Print communication
  - c) Bill board communication
  - d) None of these.
  
- viii) Exterior systems deals with
  - a) Air management
  - b) Water management
  - c) Grounds management
  - d) None of these.



- ix) Built up roofing systems consists of
- a) Overlapping layers      b) Mixed layers  
c) Rich layers                d) None of these.
- x) Facades are
- a) Exterior walls              b) Interior walls  
c) Side walls                  d) None of these.
- xi) Algae are plant growths on the swimming pool's
- a) Side walls                  b) Bottom  
c) Upper pool                 d) None of these.

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.      3 × 5 = 15

2. What are the advantages and disadvantages of portable fire extinguishers ?
3. What are the basic maintenance requirements of drainages ?
4. Briefly explain the construction techniques of swimming pools.
5. In order to maintain a refrigerator, what are the important points to be observed ?
6. Draw a neat Laundry layout and its utilities.
7. Draw a diagram showing the various aspects involved in disposing off the waste generated.



**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.

3 × 15 = 45

8. Define facades. Explain the following :
- a) Types of facades
  - b) Inspection and maintenance of facades
  - c) The cleaning process of the facades. 15
9. What are the procedures to be followed in case of fire in a hotel ? Explain the care of fire extinguishers. 15
10. Explain the several options or alternatives available to a hotel manager for laundering alternatives. 15
11. Write short notes on any *three* of the following : 3 × 5
- a) Centrifugal pumps.
  - b) Traps and vents.
  - c) Convection ovens.
  - d) Solid waste and management.
  - e) Signage.
  - f) Class B fire.

