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**ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009**

**ADVANCED ENGINEERING  
SEMESTER - 6**



Time : 3 Hours ]

[ Full Marks : 70

**GROUP – A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternative for the following : 10 × 1 = 10
- i) Coal is a solid
- a) fuel b) fossil fuel
- c) non-conventional fuel d) all of these.
- ii) Burning of wood is
- a) class A type fire b) class B type fire
- c) class D type fire d) none of these.
- iii) The device which keeps constant temperature is known as
- a) Rheostat b) Refrigerator
- c) Thermostat d) none of these.
- iv) Direct lighting means
- a) 60% upward and 40% downward
- b) 60% downward and 40% upward
- c) 100% downward
- d) none of these.
- v) Water hardness is caused by
- a) Calcium and Magnesium salts b) Sulphur salts
- c) Phosphorus d) none of these.





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**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* questions.



3 × 15 = 45

8. What causes fire ? Discuss the classification of fires under class A, B and C respectively.
9. Define Convection Ovens. Explain the four types of convection ovens.
10. What are the construction techniques of a swimming pool ? Explain the pool and spa maintenance and chemical treatments.
11. Define Roof Management Systems. Explain :
  - a) Inspection and Maintenance
  - b) Windows and Doors
  - c) Signage.
12. Explain any *two* of the following :
  - a) Water and sewage charges
  - b) Drainage system and maintenance
  - c) Swimming pool regulations
  - d) The maintenance procedures of a Microwave cooker.

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END