ADVANCED ENGINEERING (SEMESTER - 6)

CS/BH	IM/SEM-6/HM-60)8/09	
1. Sign	nature of Invigilator		"Annual (V'Exercising 2nd Explain
2. Signatu	re of the Officer-in-Charge	eg. No.	
	Roll No. of the Candidate		
	ENGINEERING & M		1-608/09 IINATIONS, JUNE – 2009 (SEMESTER - 6)
Time : 3 l	Hours]		[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

- 1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
- 2. a) In **Group A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
 - b) For Groups B & C you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of Group B are Short answer type. Questions of Group C are Long answer type. Write on both sides of the paper.
- 3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
- 4. Read the instructions given inside carefully before answering.
- 5. You should not forget to write the corresponding question numbers while answering.
- 6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
- 7. Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.
- 8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
- 9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

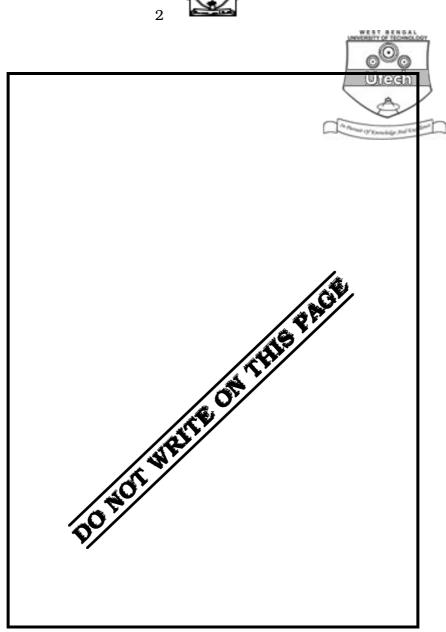
FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

	Group – A								Gro	up –	В	Gro	oup -	- C		
Question Number															Total Marks	Examiner's Signature
Marks Obtained																

Head-Examiner/Co-Ordinator/Scrutineer





CS/BHM/SEM-6/HM-608/09



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ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009 ADVANCED ENGINEERING CO SEMESTER - 6

Time : 3 Hours]



Full Marks : 70

(Multiple Choice Type Questions)

Cho	ose th	$10 \times 1 = 10$			
i)	Coa				
	a)	fuel	b)	fossil fuel	
	c)	non-conventional fuel	d)	all of these.	
ii)	Bur				
	a)	class A type fire	b)	class B type fire	
	c)	class D type fire	d)	none of these.	
iii)	The				
	a)	Rheostat	b)	Refrigerator	
	c)	Thermostat	d)	none of these.	
iv)	Dire				
	a)				
	b)				
	c)	100% downward			
	d)	none of these.			
V)	Wat	er hardness is caused by			
	a)	Calcium and Magnesium salts	b)	Sulphur salts	
	c)	Phosphorus	d)	none of these.	
	i) ii) iii)	 i) Coa a) c) ii) Bur a) c) iii) The a) c) iii) Dire a) c) d) c) d) v) Wat a) 	 i) Coal is a solid a) fuel c) non-conventional fuel ii) Buring of wood is a) class A type fire c) class D type fire ii) The vice which keeps constant ter a) Rheostat c) Thermostat iv) Direct lighting means a) 60% upward and 40% downward b) 60% downward and 40% upward c) 100% downward inone of these. v) Water hardness is caused by a) Calcium and Magnesium salts 	i) Coal is a solid a) fuel b) c) non-conventional fuel d) ii) Bur-ing of wood is b) ii) Bur-ing of wood is b) c) class A type fire b) c) class D type fire d) iii) The evice which keeps constant terper a) Rheostat b) c) Thermostat d) iv) Direct lighting means d) a) 60% upward and 40% downward d) b) 60% downward and 40% upward inone of these. v) Wat-tardness is caused by inone of these. a) Calcium and Magnesium salts b)	a)fuelb)fossil fuelc)non-conventional fueld)all of these.ii)Burrer of wood isb)class D type fireb)class D type firec)class D type fired)none of these.iii)The rever which keeps constant rever re is known asa)Rheostatb)Refrigeratorc)Thermostatd)none of these.iii)Direct representationd)none of these.iii)Of of upward and 40% downwerdnone of these.c)60% downward and 40% downwerdreversentationiii)iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii

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	GROUP – B (Short Answer Type Questions)										
	c)	weir	d)	vacuum cleaner.							
	a)	spool sweeps	b)	chemical treatment							
	removed by an arrangement of										
X)	In the swimming pool, soils, leaves, insects and debris are collected and										
	a)	True	b)	False.							
ix)	In the microwave oven heat is generated within the food and oven remains cool.										
	c)	ranges	d)	pots.							
	a)	peelers	b)	pans							
viii)	In tl	ne kitchen large equipment are									
	C)	B.Th. U	d)	joule.							
	a)	calorie	b)	k.cal							
vii)											
	c)	the same	d)	none of these							
	a)	lesser	b)	greater							
vi)	The diameter of earth wire, as compared to live wire is										
		4									

Write short notes on any *three* of the following. $3 \times 5 = 15$

- 2. On-premises Laundry.
- 3. Parking, Walks and Drives.
- 4. Types of Fire Extinguishers.
- 5. Jet pump.
- 6. Facades.
- 7. Washing Machine.



(Long Answer Type Questions)

Answer any three questions.

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 $3 \times 15 = 45$

- 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.

END