	Utech
Name:	A
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Invigilator's Signature:	•••••

CS/MHA/SEM-2/MHA-204/2012

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2012

BIO-MEDICAL WASTE MANAGEMENT

Time Allotted: 3 Hours Full Marks: 70

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Co	andid	ates	are required to give as far	their ansu as practica		their (own words	S	
				UP – A					
			(Multiple Choic	e Type Q	uestio	ns)			
1.	Cho	ose t	he correct alternat	tives for an	y ten o	f the f	following: $10 \times 1 =$	10	
	Bio-Medic	al							
		, 1998	3.						
		a)	Ten	b)	Seven				
		c)	Six	d)	Five.				
	ii)	Cat	tegory No. 7 of Bio-Medical Waste (Management						
Handling) Rules, 1998, is									
		a)	animal waste	b)	liquid	waste	e		
		c)	solid waste	d)	none (of the	se.		
iii) Management of Radioactive waste should be							undertak	en	
		as per the guidelines of							
		a)	a) Ministry of Health and Family Welfare						
		b)	Pollution Control Board						

c) Bhaba Atomic Research Centre (BARC).

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No untreated bio-medical waste shall be kept or iv) beyond a period of 36 hours a) b) 24 hours c) 72 hours d) 48 hours. Anatomical waste includes v) a) placenta b) contaminated with blood & body fluid needle c) d) all of these. Source reduction of waste can be done by vi) a) good operating practices b) selecting material substitution improved inventory control c) d) all of these. PVC stands for vii) Polyvinyl chloride Polyvinyl cycle b) a) c) Polio Vaccine Category d) None of these. viii) Materials which may be recycled are all except a) Glass b) Aluminum X-ray film Earthen pot. c) d) Pre-treatment of waste is required for ix)

a)

c)

d)

to disinfect the waste

all of these.

to reduce the bulk of waste

to make waste unrecognisable



- x) Combustion efficiency (CE) of incinerators shall be at least
 - a) 75.00%
- b) 85.00%
- c) 95.00%
- d) 99.00%.
- xi) Microwave treatment shall not be used for
 - a) cytotoxic
- b) radioactive waste
- c) body parts
- d) all of these.
- xii) Reduction of microbiological contamination to a safe level is
 - a) disinfection
- b) disposal
- c) sterilization
- d) decontamination.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following.

 $3 \times 5 = 15$

- 2. Training for Biomedical waste management.
- 3. Categories of biomedical waste with examples.
- 4. On-site Treatment of Biomedical waste in the hospital.
- 5. Steam Sterilization in the hospital.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following.

 $3 \times 15 = 45$

6. What is Common Regional Facility? Discuss the functions of the facility in the Healthcare Industry. Explain why these facilities are getting importance now-a-days in the health care sectors.
2 + 8 + 5

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- 7. What is Standard Operating Procedure? Explain how it can be effectively utilized in the various department of the hospital for biomedical waste management.

 3 + 12
- 8. What is pre-treatment of waste? What are the processes of pre-treatment? Discuss the various criteria for selecting appropriate medical waste treatment technologies. 2 + 4 + 9
- 9. Assume that you are recently appointed as a manager of a newly launched 100 bed "Tulip Hospital" at Durgapur and given responsibility to prepare a biomedical waste management programme (BMWMP) for your hospital. Show how you will prepare this BMWMP involving all the areas of waste management.

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