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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN  
 [AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]  
 Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

**Question Paper Code: 12012**

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – MAY / JUNE 2024

Fifth Semester

Computer Science and Engineering

U19BMOE3 – HOSPITAL WASTE MANAGEMENT

(Common to Electronics and Communication Engineering)

(Regulation 2019)

Time : Three Hours

Maximum : 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 – Creating

PART – A

(10 x 2 = 20 Marks)

Q.No.	Questions	Marks	KL	CO
1.	What are the common causal factors of the accident?	2	K1	CO1
2.	Discuss any 3 Accident Causation Theory.	2	K2	CO1
3.	Define Waste segregation.	2	K1	CO2
4.	Neatly Tabulate the different categories and classifications of biomedical waste.	2	K2	CO2
5.	Define the term “Hazardous Material” and provide an example.	2	K1	CO3
6.	State the importance of proper labeling and signage when handling hazardous materials.	2	K2	CO3
7.	Recall the key elements for industrial roof fall protection.	2	K1	CO4
8.	Define electrical shock along with several factors that impact the severity of shock.	2	K2	CO4
9.	What are the 3 different types of disinfectants?	2	K1	CO5
10.	Name two key functions or responsibilities of the center for disease control and prevention.	2	K2	CO5

## PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	Organize a step-by-step procedure for accident analysis and investigation.	13	K3	CO1
	(OR)			
b)	Discuss the importance of ergonomics in healthcare settings for hazard control. Provide example of ergonomic risks.	13	K3	CO1
12. a)	Discuss the following:			
	i. waste segregation and labeling	5	K3	CO2
	ii. waste handling	5		
	iii. disposal of waste	3		
	(OR)			
b)	Discuss the challenges and importance of proper biomedical waste management in healthcare facilities.	13	K3	CO2
13. a)	Explain about DOT Hazardous Material Regulation.	13	K2	CO3
	(OR)			
b)	Summarize briefly about medical gas system.	13	K2	CO3
14. a)	Explain different types of safety followed in healthcare environment with suitable examples.	13	K3	CO4
	(OR)			
b)	Evaluate the importance of Slip, Trip, and Fall Prevention.	13	K3	CO4
15. a)	Compare and contrast patient centered care with traditional provider centered health model.	13	K3	CO5
	(OR)			
b)	List out and explain various procedures followed for TB Screening.	13	K3	CO5

## PART – C

(1 x 15 = 15 Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	Describe the importance of the Centre for Disease Control and Prevention along with a case study.	15	K3	CO5
	(OR)			
b)	Plan and develop a Safety Precaution procedure to control Respiratory infection inside a healthcare institutions.	15	K3	CO3