Brainware University Sarasat, Kolkata -700125





BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Sc.(OTT)-2021/B.Sc.(OTT)-2022 Course Name – Basic Administration and Equipment Maintenance Course Code - BOTTE603 (Semester VI)

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Select the following is a key component of equipment maintenance in healthcare:
 - a) Regular inventory audits

- b) Ad hoc equipment checks
- c) Scheduled calibration and servicing
- d) Random staff assignments
- (ii) Recall In healthcare accounting, the term "accounts payable" refer to:
 - a) Amounts owed for goods or services
- b) Revenue generated from patient services
- purchased on credit
- d) Payroll expenses for medical staff
- c) Operational expenses related to utilities
- (iii) Recall the primary purpose of tracking equipment maintenance in healthcare facilities.
 - a) To assign blame for equipment failures
- b) To increase administrative burden
- c) To ensure equipment is safe and functional
- d) To discourage staff engagement
- (iv) Identify the term "accounts receivable" refer to:
 - a) Revenue generated from patient services
- b) Amounts owed for goods or services purchased on credit
- c) Operational expenses related to utilities
- d) Payroll expenses for medical staff
- (v) Select the primary purpose of documenting equipment maintenance procedures in healthcare.
 - a) To satisfy regulatory requirements
- b) To increase administrative workload
- c) To create unnecessary paperwork
- d) To discourage staff engagement
- (vi) Select the department, that is typically responsible for initiating a purchase order in a healthcare facility.
 - a) Human Resources

b) Accounting

c) Purchasing

- d) Marketing
- (vii) Recall Economic issues in healthcare management primarily involve:
 - a) Maximizing patient satisfaction
- b) Minimizing equipment costs

c) Reducing staff turnover

- d) Increasing medical research funding
- (viii) In basic administration, the primary responsibility of an operating theatre manager.

		a) Conducting surgeries	b) Coordinating with suppliers		
	(ix)	c) Managing surgical instruments Choose the regulatory body often sets guidelines for the monitoring and maintenance			
		of medical equipment.	b) FDA (Food and Drug Administration)		
		a) WHO (World Health Organization) c) CDC (Centers for Disease Control and	-1\		
		Prevention)	NIH (National Institutes of Health)		
	(x)	Relate the significance of regular calibration of medical equipment.			
		a) To ensure accurate measurements and	b) To extend the warranty period of the		
		readings c) To decrease the need for routine	equipment d) To minimize the need for equipment		
		maintenance	replacement		
	(xi)	Relate the following is a common method for equipment.			
		a) Visual inspection	b) Auditory analysis		
		c) Taste testing	d) Olfactory assessment		
	(xii)	Choose the meaning of "uptime" refer to in t maintenance.	he context of medical equipment		
		a) The time taken to repair equipment	b) The period during which equipment operational	is	
		c) The time spent on routine inspections	d) The duration between equipment		
	(xiii) Tell the type of maintenance involves addressing equipment issues as they arise.				
	(XIII	a) Preventive maintenance	b) Corrective maintenance		
		c) Predictive maintenance	d) Routine maintenance		
	(xiv) Select the primary goal of preventive maintenance for medical equipment :				
		a) To repair equipment after a breakdown	 b) To minimize the likelihood of equipm failure 	ent	
	c) To maximize equipment downtime d) To delay the replacement of equipment (xv) Choose the ECG artifact is caused by patient movement.				
		a) Baseline wander	b) Muscle artifact		
		c) AC interference	d) Somatic tremor		
		Barrier Samuel States and Brigary	The chief of the car	70.0	
	Group-B (Short Answer Type Questions)			3 x 5=15	
		(SHOTE ANSWER	Type Questions,		
	2. List the key components of a purchase order in healthcare administration?3. Illustrate how do healthcare administrators ensure compliance with safety regulations during equipment maintenance?			(3)	
				(3)	
 4. Explain what are the common challenges encountered in implementing a maintenance protocol for medical equipment? 5. Interpret the key components of an ECG machine, and how do they contribute to accurate signal acquisition? 			(3)		
			(3)		
	6. E	6. Evaluate the importance of regularly checking and cleaning the filters in ventilators and CPAP machines for ensuring optimal air quality and device performance. OR			
		Summarize the potential risks associated with improper maintenance of infusion pump battery packs and propose strategies for ensuring battery longevity and performance.			
		G	roup-C		
			r Type Questions)	5 x 6=30	

7. Tell How do you ensure compliance with purchasing regulations when procuring medical (5) equipment? 8. Justify What is the role of a defibrillator in the operating theater, and how is it used to (5)manage cardiac emergencies during surgery? 9. Explain how do you perform routine checks and maintenance tasks on a defibrillator to (5)ensure its readiness for use in emergency situations? 10. Predict how do you troubleshoot common issues encountered with defibrillator operation, (5) such as battery failure or electrode detachment. 11. Enumerate the importance of adherence to maintenance protocols in ensuring the (5) reliability of medical equipment during surgical procedures. 12. Evaluate the purpose of an arterial blood gas (ABG) machine in the operating theater, and (5)how does it contribute to patient care during surgery? Illustrate the importance of proper handling and storage of arterial blood samples before (5)analysis in an ABG machine.

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