



## **BRAINWARE UNIVERSITY**

## Term End Examination 2023-2024 Programme - B.Sc.(OTT)-2021 Course Name – Basic Administration and Equipment Maintenance **Course Code - BOTTE603** (Semester VI)

Full Marks: 60

[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. Choose the correct alternative from the following:
  - (i) Select from following is NOT a fundamental aspect of basic administration in an operating theatre:
    - a) Scheduling surgeries

b) Managing inventory

c) Patient diagnosis

- d) Staff scheduling
- (ii) Select Which document typically outlines the terms and conditions of a purchase agreement in healthcare?
  - a) Invoice

b) Receipt

c) Purchase order

- d) Billing statement
- (iii) Select Who is typically responsible for troubleshooting equipment issues in a healthcare setting
  - a) Janitorial staff

b) Administrative assistants

c) Biomedical technicians

- d) Human resources managers
- (iv) Predict which of the following is NOT typically included in a purchase order?
  - a) Quantity and description of items
- b) Supplier's contact information

c) Payment terms

- d) Employee payroll information
- (v) Tell the main purpose of maintaining consumables stock in an operating theatre is to:
  - a) Minimize waste

- b) Maximize profits
- c) Reduce patient waiting times
- d) Improve staff morale
- (vi) Choose Which of the following is NOT a factor to consider when prioritizing equipment for maintenance
- a) Age of the equipment
- (noting) squit b) Frequency of use
- c) Manufacturer's reputation
- d) Color of the equipment
- (vii) Tell Which of the following statements about equipment downtime is true

  - a) Equipment downtime has no impact on the b) Equipment downtime should be minimized patient care hope the grates would may acide one to ensure patient safety to each our menters.

	implications for healthcare facilities	regulatory compliance	ect .
(viii	) Tell, What does ECG stand for		
	a) Electrocardiogram	b) Electrochemical Generator	
(ix)	<ul> <li>c) External Cardiovascular Graph</li> <li>Select Which of the following leads is known as myocardial infarction</li> </ul>	d) Electromagnetic Cardiac Gauge the "gold standard" for diagnosing	
	a) Lead I	b) Lead II	
2 2	c) Lead III	d) Lead V1	
(x) Tell What is the purpose of the ECG paper speed control on the ECG machine			
	<ul> <li>a) To adjust the gain of the signal</li> <li>c) To control the speed at which the paper moves</li> </ul>	<ul> <li>b) To change the sensitivity of the ele</li> <li>d) To regulate the frequency response machine</li> </ul>	
(xi)	(xi) Write the significance of the Allen's test before arterial blood sampling?		
(xii)	<ul><li>a) To assess renal function</li><li>c) To ensure collateral circulation</li><li>Select What is the primary advantage of using a</li></ul>	<ul><li>b) To evaluate liver function</li><li>d) To determine coagulation status</li><li>multiparameter monitor</li></ul>	
	<ul><li>a) Simplicity</li><li>c) Comprehensive monitoring</li><li>) Recall Which lead configuration is commonly us</li></ul>	<ul><li>b) Cost-effectiveness</li><li>d) Portability</li></ul>	
	a) Einthoven's triangle c) Wilson's central terminal ) Tell What is the primary safety feature of infusion	b) Frank lead system d) Hexaxial reference system	
(xv)	<ul><li>a) Audible alarms for occlusions or errors</li><li>c) Continuous monitoring of patient vital signs</li><li>Select Which method is used to assess the finar</li></ul>	b) Automated dose calculation d) Wireless connectivity for remote co cial health of a company	ontrol
	<ul><li>a) Ratio analysis</li><li>c) Benchmarking</li></ul>	<ul><li>b) Trend analysis</li><li>d) Cash flow forecasting</li></ul>	
	Grou		3 x 5=15
	(Short Answer Ty	pe Questions)	3 X 3-13
2. Discuss what are the measures can healthcare administrators take to prevent equipment theft or misuse?			(3)
4. D	3. Describe how do you prioritize which medical equipment requires regular monitoring? 4. Describe how temperature affect the accuracy of ABG machine readings, and what measures can be taken to minimize its impact?		
5. E	5. Explain the difference between invasive and non-invasive methods for arterial blood gas (3) sampling, highlighting advantages and limitations of each.		
6. E	5. Evaluate the importance of regularly checking and cleaning the filters in ventilators and (3)  CPAP machines for ensuring optimal air quality and device performance.  OR		
	ummarize the potential risks associated with impositery packs and propose strategies for ensuring b		(3)
	Group	o-C	
	(Long Answer Typ		5 x 6=30
р	proximity to other medical equipment or during specific surgical procedures?		
	xplain the role of basic accounting skills in managnaintenance in healthcare.	ging purchase orders and equipment	(5)

9. Explain the key objectives of monitoring medical equipment in an operating theater, and how do they contribute to patient safety and care quality.
10. Evaluate the role does risk assessment play in determining the monitoring approach for different types of medical equipment in an operating theater?
11. Design the procedure for setting up and calibrating an ECG machine before its use in an operating theater?
12. Illustrate What training is necessary for staff involved in purchase order administration and equipment maintenance in healthcare.
OR
Explain How do you handle discrepancies or errors in purchase orders in a healthcare setting.