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BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – BBA(HM)-2020
Course Name – Biomedical Equipment Management
Course Code - BBAHMC602
(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) Determine which factor is not improving the maintenance of an equipment
- | | |
|---------------------|----------------------------|
| a) regular cleaning | b) storage |
| c) lubrication | d) availability and access |
- (ii) Tell how many types of diathermy treatment are available to a patient.
- | | |
|------|------|
| a) 3 | b) 2 |
| c) 4 | d) 5 |
- (iii) Select the correct category of Medical equipment that has the highest priority.
- | | |
|-----------------------|--------------------------|
| a) Critical equipment | b) Non medical equipment |
| c) Emergency | d) basic life support |
- (iv) Choose which statement is fully correct for Risk based maintenance
- | | |
|--|--|
| a) prioritizes maintenance resources toward assets that carry the most risk if they were to fail. | b) prioritizes management resources toward assets that carry the most risk if they were to fail. |
| c) prioritizes maintenance costs and budget toward assets that carry the most risk if they were to fail. | d) None of these |
- (v) Identify which is the advantage of Group Replacement Policy for an Equipment
- | | |
|---------------------------------------|---|
| a) Reduced replacement cost per unit. | b) Safeguards the goodwill of the property. |
| c) Discounts are available | d) All of these |
- (vi) Choose which statement is totally correct for Condition based maintenance
- | | |
|---|---|
| a) monitors the actual condition of an asset. | b) monitors the actual condition of an asset if it requires maintenance |
| c) monitors the overall condition of an equipment for planned check | d) none of these |

- (vii) Choose which one of the following is not a condition for maintenance for equipment.
- a) corrective, preventive, condition-based, predictive.
 - b) preventive, condition-based, predictive and predetermined.
 - c) corrective, preventive, condition-based, predictive and predetermined.
 - d) corrective, condition-based, predictive and predetermined.
- (viii) Identify the phase under which cost estimation fall in Bio medical equipment management.
- a) Assessment phase
 - b) Acquisition phase
 - c) Planning phase
 - d) disposition phase
- (ix) Identify the treatment to deep heat areas of the body.
- a) Microwave
 - b) CT Scan
 - c) Diathermy
 - d) Physiotherapy
- (x) Indicate which statement is correct for Equipment Planning.
- a) Selecting the supplier offering the highest cost.
 - b) Selecting low quality equipment at highest price
 - c) Buying the right equipment at lowest price
 - d) None of these
- (xi) Identify the accrediting body for providing standards on preventive maintenance on electrical equipment
- a) NFBA 70B
 - b) NFPA 70B
 - c) NFBA 80B
 - d) None of these
- (xii) Determine why managing equipment documentation is important
- a) ensuring optimal performance and safety.
 - b) ensuring optimal performance and safety by daily updating the record
 - c) ensuring optimal performance by daily inspection
 - d) None of these
- (xiii) Indicate the first step in the process of equipment planning and procurement.
- a) Need assessment
 - b) Requisition
 - c) demand Forecasting
 - d) budgeting
- (xiv) Identify which of the following is not a medical equipment
- a) wheel chair
 - b) xray machine
 - c) pace maker
 - d) cotton
- (xv) Tell the year of invention of Infusion Pumps for medical treatment.
- a) 1999
 - b) 1976
 - c) 1666
 - d) 1943

Group-B

(Short Answer Type Questions)

3 x 5=15

2. State the difference between an instrument and equipment with an example (3)
3. Examine the guidelines for efficient Equipment Management (3)
4. Discuss the standards for cost estimation in biomedical equipment planning. (3)
5. Write some importance of proper installation of equipment before delivery. (3)
6. Explain equipment planning in a hospital. (3)

OR

Discuss the objectives of equipment planning of a medical equipment (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. explain the components of bio medical equipment planning. (5)
8. Discuss the principles of efficient Bio medical Equipment Planning before procurement. (5)
9. State about Equipment Management with a flow chart (5)
10. Tell some of the conditions when Colonoscopy and Laproscopy tests could be performed. (5)

- 11. Illustrate the guidelines laid by WHO for equipment cleaning and maintenance. (5)
 - 12. Determine the internal and external causes of depreciation in an equipment. (5)
- OR**
- Determine the pros and cons of having Preventive maintenance service of equipment. (5)
