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Brainware University
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BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – BBA(HM)-Hons-2024

Course Name – Fundamentals of Hospital Planning

Course Code - BHM40107

(Semester IV)

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) Show from the following the key cultural factor that can impact the utilization of hospital services.
 - a) Language barriers
 - b) Seasonal weather patterns
 - c) Availability of hospital staff
 - d) Hospital architecture
- (ii) Show the factor that is NOT a factor that affects the utilization of hospital services.
 - a) Patient satisfaction
 - b) Availability of alternative healthcare options
 - c) Hospital staff uniforms
 - d) Hospital operational hours
- (iii) Select the primary objective of hospital planning from the following.
 - a) Maximizing profit
 - b) Ensuring patient safety and efficient delivery of healthcare services
 - c) Reducing staff workload
 - d) Increasing the number of hospital beds
- (iv) What is a "feasibility study" in hospital planning?
 - a) Study of environmental factors
 - b) Assessment of the project viability
 - c) Diagnosis of patients
 - d) Financial assessment only
- (v) Who is responsible for the conceptualization of a hospital?
 - a) Engineer
 - b) Nurse
 - c) Architect
 - d) Originator of the idea
- (vi) Infer the use of morbidity data in hospital planning.
 - a) For patient entertainment
 - b) To assess hospital viability
 - c) To analyze disease prevalence
 - d) For financial planning
- (vii) Select the correct answer: The intensive care unit (ICU) is ideally placed in a hospital:
 - a) On the ground floor near the entrance
 - b) On the top floor for privacy
 - c) Adjacent to the operating theatre
 - d) Near the administrative offices

- (viii) Demonstrate the correct option: "Functional programming" in the context of hospital design is:
- a) The layout of the electrical system
 - b) The allocation of resources to departments
 - c) The arrangement of spaces based on their function
 - d) The design of recreational areas
- (ix) Show us the correct answer: The main purpose of having separate sanitary facilities for staff and patients in a hospital is to:
- a) Reduce construction costs
 - b) Prevent cross-contamination
 - c) Increase patient comfort
 - d) Simplify maintenance procedures
- (x) Why is bed planning critical in hospital design?
- a) To reduce construction costs
 - b) To optimize patient flow and ensure proper care
 - c) To increase the number of staff
 - d) To limit the number of patients
- (xi) Infer the most important consideration in hospital circulation planning.
- a) Staff convenience
 - b) Patient safety and ease of movement
 - c) Aesthetic appeal
 - d) Visitor access
- (xii) Show the role hospital size plays in project management.
- a) Determines the number of administrative staff needed
 - b) Influences the complexity and scope of the project
 - c) Dictates the type of furniture required
 - d) Affects only the landscaping design
- (xiii) Name the following methods which are commonly used for the cost estimation of hospital construction projects.
- a) Bottom Estimating
 - b) Top-down Estimating
 - c) Parametric Estimating
 - d) Analogous Estimating
- (xiv) Show the key factor used to design a hospital layout.
- a) Aesthetic appeal
 - b) Ease of access for the public
 - c) Availability of parking
 - d) All of these
- (xv) Select the key feature of "smart hospitals" in the 21st century.
- a) Use of paper-based records
 - b) Integration of Internet of Things (IoT) devices
 - c) Manual patient monitoring
 - d) Limited use of digital technology

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Group-B
(Short Answer Type Questions)

3 x 5=15

2. Define "feasibility study" in the context of hospital planning. (3)
3. What is the primary objective of sanitary requirements in hospital planning? (3)
4. Recall the types of hospitals based on their size. (3)
5. Define hospital commissioning and its significance in hospital planning. (3)
6. List down the challenges in hospital planning in rural areas. (3)

OR

- List down the importance of technology in hospital planning. (3)

Group-C
(Long Answer Type Questions)

5 x 6=30

7. Perceive and describe the different types of healthcare facilities. (5)
8. Justify the need for water requirement, proper sewage disposal system and soil structure in hospital planning. (5)
9. What is the role of landscaping and gardening in the sustainability and aesthetics of hospital design? (5)

10. Classify the different circulation patterns used in hospital design and their impact on patient and staff movement. (5)
11. Construct the answer mentioning the importance of testing of building system required during hospital commissioning. (5)
12. List down the classification of hospitals and the criteria used for classification. (5)

OR

Inspect the concept of healthcare infrastructure and its importance in hospital planning. (5)

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