

LIHMR UNIVERSITY
Institute of Health Management Research
MBA Hospital and Health Management
Batch 20th (2015-2017)
Hospital Management
Hospital Planning
Term Examination



Roll No. _____

Date _____

Time: 01 Hour

Maximum Marks: 35

Question 1: Attempt all questions. Multiple choices (1 Mark each)

1. Role of graphic designer in the hospital project is:
 - a) That of directional graphics, (signage) to transmit information visually to the patients/visitors & staff to move efficiently
 - b) Create hospital logo for corporate image
 - c) a & b
 - d) None of the above
2. The bill of quantities (BOQ) contain
 - a) Detailed specifications for various items
 - b) Rates of these items
 - c) Both a & b
 - d) None of the above
3. The contractor while constructing the site uses:
 - a) The working drawings
 - b) Design development drawing
 - c) Schematic drawing
 - d) None of the above
4. Which one is not a part of 'standard set of documents' binding client and contractor
 - a) Owner – contractor agreement
 - b) Bill of quantities
 - c) Work order
 - d) Architect – owner agreement

5. Which is/are true for criteria in planning the patient housing systems:
- a) Ownership and bed – mix (single – bed/double – bed/ward) of the hospital
 - b) Age and gender distribution
 - c) Socioeconomic class based distribution
 - d) All of the above
6. Role of Intensive care units does not entail
- a) House critically ill patient
 - b) Need intense nursing by speciality nursing units
 - c) Need monitoring by specialized equipment
 - d) Can be allotted to patients 'on demand' by 'paying' patients
7. Burns – unit need to
- a) Have barrier nursing
 - b) Isolation
 - c) Both a & b
 - d) None of the above
8. In critical care unit, this is not true
- a) Distance between beds should be 8 ft.
 - b) Minimum 150 sq. ft per bed area
 - c) Beds be located away from the wall to give staff a 360 – degree access
 - d) Nurse to patient ratio of 1:5
9. NICU is meant to
- a) Observe critical new – borns
 - b) Monitor critical infants
 - c) Carry out advanced therapeutic treatment procedure
 - d) All of the above
10. In imaging department electromagnetic shielding has to be provided for
- a) CT scan
 - b) MRI
 - c) PET
 - d) X-Ray machine
11. Typical components of physical therapy department is/are
- a) Treatment areas (cubicle/rooms)
 - b) Gymnasium
 - c) Hydrotherapy
 - d) All of the above



12. Which one of the following services can be out - sourced readily
- a) CSSD
 - b) Firefighting
 - c) Laundry
 - d) Engineering services
13. An effective way of reducing cost of a project is
- a) Downsizing the project
 - b) Not provisioning for flexibility
 - c) Using locally available materials and skills
 - d) Both a & b
14. Which member of the project team is entrusted with obtaining permissions/no objection certificates from regulatory authorities
- a) Construction manager
 - b) Hospital consultant
 - c) Hospital administrator
 - d) Municipal/local architect
15. Florence Nightingale was the first one to be committed to 'designing' hospitals with the basic concepts of
- a) Light
 - b) Air
 - c) Cleanliness
 - d) All of the above
16. The temperature should be maintained at inside the OT all the time and corresponding relative humidity between
- a) 22 +/- 3 Degree C & 40 to 60%
 - b) 24 +/- 3 Degree C & 50 to 60%
 - c) 22 +/- 3 Degree C & 20 to 40%
 - d) 20 +/- 3 Degree C & 50 to 60%
17. The cost of construction of hospital building is grouped into following heads except
- a) Cost of super structure
 - b) Cost of manpower
 - c) Cost of interior finishes
 - d) Cost of building services
18. is/are undertaken as a component of strategic planning to evaluate the effectiveness of the proposal in terms of its technical and financial strengths
- a) Market survey
 - b) SWOT analysis
 - c) Feasibility study
 - d) All of the above



19. The location of a mortuary should ideally
- a) Be isolated from all other traffics
 - b) Provide easy access for vehicular movement for the deceased body
 - c) Have adequate arrangements for relatives in keeping with grace and dignity
 - d) All of the above
20. Rooming - in shall be allowed in all in-patient units other than
- a) Wards units
 - b) Private units
 - c) Suit units
 - d) Intensive care in-patient units
21. A master site plan represents an architectural delineation of programmed facilities situated on the site, usually at a scale of
- a) 1:75
 - b) 1:100
 - c) 1:150
 - d) 1:250
22. Types of intensive nursing care provided in the hospitals
- a) Acute care
 - b) Intermediate care
 - c) Self care
 - d) All of the above
23. Key considerations for planning a new hospital building is/are
- a) Fitness for the purpose it is built for
 - b) Aesthetically appealing
 - c) a& b
 - d) None of the above
24. While planning a small general hospital in a tier 3 city (town) we need not consider
- a) Other health care institution/medical services in the area
 - b) Health needs of dependent population
 - c) Accessibility of the hospital to the population
 - d) 'Competition' from small hospitals in the neighboring towns
25. The following is not a part of a non-invasive cardiology investigation department
- a) Echocardiography
 - b) ECG
 - c) Stress test/TMT
 - d) EEG (electroencephalogram)



26. The expertise of landscape architect does not include
- a) Plantation
 - b) Fountains & water bodies
 - c) Pedestrian pathways
 - d) Interiors of indoor units
27. Which is not essential in the planning for materials department
- a) 'Dock' for trucks to unload
 - b) Large storage area
 - c) Bar - coding of material
 - d) Close proximity to main entrance of the hospital
28. The key - activity factors for planning respiratory care is/are
- a) PFT (pulmonary function test) diagnostic facility
 - b) Inhalation therapy
 - c) Both a & b
 - d) None of the above
29. Following are the components of the pathology laboratory except
- a) Haematology
 - b) Biochemistry
 - c) Microbiology
 - d) Echocardiography
30. For easy movement of stretcher or bed (on wheels), a minimum width for circulation is
- a) 8 feet
 - b) 10 feet
 - c) 6 feet
 - d) None of the above
31. Quality of a well planned 'circulation pattern' should possess
- a) Have conceptual clarity
 - b) Should be designed with 'purpose'
 - c) Should enable easy way finding in combination with well designed signage
 - d) All of the above
32. A structural grid is
- a) Not necessarily same as the planning grid
 - b) Always derived from planning grid
 - c) Both a & b
 - d) None of the above



33. Planning for fire protection system will include

- a) Fire fighting equipment
- b) Fire alarm & fire detection system
- c) Emergency evacuation route
- d) All of the above

34. Factors influencing planning of operation theatre complex is/are

- a) Number of surgeons & their specialties
- b) Projection on patient load
- c) Average time taken for surgery
- d) All of the above

35. Doctors' survey in primary data research for planning a hospital does not include

- a) Details on speciality & qualification
- b) Area of practice & hospital attachment
- c) Referrals to other hospital
- d) Overall income of the doctor



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(ATTEMPT ANY 5)

QUESTION 1. Write a short note on any 5 of the following:

5 Marks Each

- (i) Enumerate the stakeholders in health care industry that impact a new hospital project.
- (ii) Enumerate the types of survey undertaken for market research to gather primary data for feasibility of a new hospital project. Briefly out-line household survey.
- (iii) List out the cost-heads you would consider in estimating for feasibility study of a new hospital project.
- (iv) Enumerate the components of a maternity unit/department. Briefly outline the LDR model.
- (v) What are the factors considered for selecting a site for a new multi-specialty hospital in a city?
- (vi) Role of hospital administrator/CEO as a member of hospital project team.

QUESTION 2. Attempt any one:

10 Marks

- (i) Define Intensive Care Unit. Discuss planning and designing for a 12 bed ICU. Give an outline sketch.

OR

Where would you plan to locate the pharmacy? Discuss the reasons for the same along with the location of sales counters.