

INTERNATIONAL INSTITUTE OF HEALTH MANAGEMENT RESEARCH, NEW DELHI.

Hospital Management Stream: Batch 2020-2022

SUBJECT: Hospital Planning and Design

End Term Examination

Time allowed: 2 hrs

Max. Marks: 70

NOTES –

1. *Please read all the questions carefully before answering*
2. *Answer ONLY ONE question in **Part 3** of the examination paper*
3. *The layout diagram is to be uploaded as a pdf*

PART 1

1. Select the correct answer

30 marks (3marks each)

- (i). Which of the following factors is important while planning a public healthcare facility-
 - a) Accessibility
 - b) Affordability
 - c) Acceptability
 - d) All of the above

- (ii). All the following are **radiology** equipment except
 - a) MRI
 - b) Ultrasound
 - c) Ventilator
 - d) CT Scan

- (iii). Architectural drawings of a hospital building would usually include which of the following –
 - a) Floor Plans
 - b) Elevations
 - c) None of the above
 - d) All of the above

- (iv). To ensure functional efficiency, the Casualty department in a 500-bed hospital multi-speciality hospital should be
 - a) Separate from the OPD
 - b) Part of the OPD
 - c) Depends on the distance from the road
 - d) None of the above

- (v). In case of fire in a hospital, the patients and visitors should avoid lifts and use the ramps -
- Always
 - Sometimes
 - Never
 - None of the above
- (vi). A Pneumatic Tube Transport System in a hospital is used for transporting all except -
- Medicines
 - Patients
 - Laboratory samples
 - Laundry
- (vii). For planning purposes, the average number of patients expected to visit the OPD of a general hospital are –
- 2 -3 for every authorised bed
 - 10 for every authorised bed
 - 10 for every 1000 authorised beds
 - None of the above
- (viii). The following department is sometimes called the “**Shopping Window**” of the hospital –
- Operation Theatre
 - ICU
 - OPD
 - CSSD
- (ix). **Positive pressure** is planned in all the following areas of the hospital except
- ICU
 - Burns ward
 - Infectious Diseases Isolation Ward
 - Operation Theatre
- (x). Autoclave is used in which department
- CSSD
 - OT complex
 - Laboratory
 - All of the above

PART 2

2. Draw the functional flow chart of Accident & Emergency Department of a multi-speciality hospital. **(5 marks)**
3. Briefly describe what is an Architects Brief and its importance in hospital planning. **(5 marks)**

4. M/s ABC plan to build a hospital in a metro city on a plot of size 40m *50m. If the permitted FAR= 2, ground coverage is 25%, and the maximum building height permitted is 100 feet, can the complete FAR be utilized? Briefly explain with calculations. (*Note - Consider 10 feet as the height of each floor*). **(10 marks)**

PART 3

5. Answer ONE of the following **(20 marks)**

Planning is the most important part of any project. In fact it is often said that “failure to plan is planning to fail”. What are the steps in planning of a hospital? Briefly explain the major steps.

OR

Explain the planning parameters for **Outpatient Department (OPD)** in a multi-speciality 300-bed hospital. Give a rough schematic diagram of the planned layout and draw a functional flow chart. (*Note – Diagrams are to be uploaded as a scanned pdf*)

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