

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