

Roll. No. _____

International Institute of Health Management Research (IIHMR), New Delhi.

**POSTGRADUATE DIPLOMA HOSPITAL AND HEALTH MANAGEMENT
(Hospital Management Stream)
(Batch 2017-2019)
Hospital Planning and Design**

End Term Examination

Time allowed: 3 hrs

Max. Marks: 60

1. Draw a properly scaled plan of any ONE of the depts. listed below (30 marks)

• OPD

With the following area program and a max circulation of 60%.

Out Patient Department			
OPD 1	1	16	16
OPD 2	1	16	16
OPD 3	1	16	16
OPD 4	1	16	16
OPD 5	1	16	16
OPD 6	1	16	16
OPD 7	1	16	16
OPD 8	1	16	16
OPD 9	1	16	16
OPD 10	1	16	16
OPD Registration	1	10	10
Waiting lobby OPD	1	160	160
Endoscopy with change/scrub/recovery	1	60	60
ECG/ECHO/TMT	3	20	60
Pt toilet m/f	2	30	60
Staff toilet for OPD m/f	2	4	8
Dressing room	1	20	20
Plaster rm	1	20	20
Minor OT with scrub and change	1	60	60
Physiotherapy	1	60	60
Total			678

- **OT complex**
With the following area program and a max circulation of 70%

Corridors – sterile 3000/ clean 2400/dirty 1200

OT Complex			
Entry Lobby/waiting	1	60	60
Pre-op-with toilet	4	12	48
Post op with toilet	4	12	48
PAC rm	1	12	12
Stores	2	20	40
OT In charge Rm	1	12	12
OT Asstts Rm	1	12	12
Staff toilet	2	5	10
Change Rm Doctors with toilet	1	10	10
Change Rm Female Doctors with toilet	1	10	10
Change Rm Nurses with toilet	1	10	10
Change Rm Other staff with toilet	1	10	10
Doctor's Lounge with pantry	1	30	30
Staff Lounge	1	20	20
Operating Room	4	48	192
Equipment room	1	20	20
Frozen section	1	15	15
Scrub	2	3	6
Sterile store	1	20	20
Dirty Utility Rm	1	3	3
Total			588

2. Draw the functional flow chart of any TWO of the following depts. (20 marks)
 - Maternity dept.
 - Kitchen dept.
 - Emergency

3. Indicate the correct choice in the answer sheets: **10 marks (1*10)**

1. Radiology equipments are all except

- a. X Ray
- b. Mammography
- c. Ultrasonography
- d. PET Scan

2. Autoclave is used in

- a. Laboratory
- b. CSSD
- c. OR
- d. All of above

3. IF the plot size is 40*40m and the FAR is 2 and the ground coverage is 25%, what would be the height needed to achieve this FAR

- a. 6**
- b. 7**
- c. 8**
- d. 9**

4. If the FAR is 8000 sqm and the ECS is 1/100sqm, how many cars parking area will be needed

- a. 70**
- b. 80**
- c. 90**
- d. 60**

5. How many air changes is recommended by NABH in a super speciality OR

- a. 20**
- b. 22**
- c. 25**
- d. 30**

6. The minimum width of a staircase in a hospital as per NABH and NBC should be

- a. 1 m**
- b. 1.5m**
- c. 2m**
- d. 2.5m**

7. The gradient of a hospital ramp should be

- a. 1:20**
- b. 1:10**
- c. 1:12**
- d. 1:15**

8. Ramp should be used in case of fire in a hospital

- a. Always**
- b. Never**
- c. Sometimes**
- d. Not significant**

9. The minimum size of OR as per NABH is

- a. 350 sqft**
- b. 400 sqft**
- c. 420 sqft**
- d. 450 sqft**

10. OT Zoning – which one is incorrect

- a. Clean zone**
- b. Patient zone**
- c. Sterile zone**
- d. Disposal zone**
- e. Protective zone**