

CLINICAL SERVICES MODULE

(SEPT 2019)

Duration 3 Hours

Total marks 70

Q. 1. Long Question (About 800 words)

2+3+15=20 Marks

How do you define a disaster ? What are the peculiarities/problems of a disaster situation ?
Prepare a Plan for a 100 bedded hospital for management of mass casualties in probable disasters in your area.

Q. 2. Write Short Notes (about 250 words each) on any 3 of the subjects given below.

5 X 3 =15 marks

1. Barrier / Reverse Barrier nursing.
2. Queuing theory
3. Measures for Infection Control in the OT,
1. Reduction of Waiting Time in the OPD.

Q. 3. Write Short Notes (about 250 words) on any 3 of the subjects given below.

5 X 3 =15 marks

1. Admission and discharge policy for ICU
2. Measures for improvement of quality of services in ICU
3. Progressive Patient care
4. Patients' Satisfaction in a hospital

Q. 4 MULTIPLE CHOICE QUESTIONS

20 X 1 =20 Marks

1. Which of the following is not correct ?

- (a) On an average 600-900 patients for every hospital bed attend the OPD in a year.
- (b) On an average about 55 -80 patients per bed/per month attend the OPD
- (c) On an average 2-3 patients per bed per day attend the OPD.
- (d) None of the above

2. Which of the following is the correct statement ?

- (a) Function follows the Design
- (b) Design follows the function

© Design and the function go hand in hand

(c) Design and the function have no interrelation.

3. Recommended Nurse: Patient ratio in the ICU is :

(a) 1 : 1

(b) 2 : 3

© 1 : 3

(d) 1 : 2

4. Which of the following answers is correct ?

In India it is recommended that a doctor in the OPD should be able to see :

(a) 6 new + 4 old cases per hour

(b) 8 new + 4 old cases per hour

© 4 new + 6 old cases per hour

(d) 4 new + 4 old cases per hour

5. Which of the following is an accepted planning parameter for A&E Department

For a daily load of about 100 patients in A&E department,

(a) 800 Sq M space may be adequate

(b) 1000 Sq M space may be adequate.

© 2000 Sq M space may be adequate

(c) Minimum 2500 Sq M space would be required

6. HEPA filters are inspected regularly and tested by :

(a) Dioctylphthalate (DOT) test for their patency. True/False

(b) Diphenylephthalate (DPT) test for their patency. True/Fals

© Trinitrotoulene (TNT) test for their patency. True/False

(d) None of the above True/False

7. Which of the following is correct ?

Following can be the most dangerous complications in premature babies

- (a) Hyperthermia, Hypoxemia, Hypoglycemia and Septicemia.
- (b) Hypothermia, Hypoxemia, Hyperglycemia and Septicemia.
- © Hypothermia, Hyperoxemia, Hypoglycemia and Septicemia.
- (d) Hypothermia, Hypoxemia, Hypoglycemia and Septicemia.

8. Overall Space requirement in the ICU would be :

- (a) 15 Sq M per bed
- (b) 50 Sq M per Bed
- © 150 Sq M per bed
- (d) 7 Sq M per bed

9. In the A&E department decision regarding whether a case is a medico legal case or not, is to be made by :

- (a) Jointly by all the doctors and nurses attending to the case. True/False
- (b) By the patient or his attendants True/False
- (c) By the attending doctor only True/False
- (d) By the Police True/False

10. Which of the following statements is true ?

McGibony has recommended for Outpatient services :

- (a) Overall space at the scale of about $3/4^{\text{th}}$ -1 Sq F for each annual OPD visit.
- (b) Patients' waiting area of 8-10Sq F / per patient visit
- (c) Ample scope for future expansion because the number of out- patient visits is estimated to increase from 2-3 to about 6 outpatient visits for each inpatient admission
- (d) All of the above

11. The estimated daily Surgical load in an OT can be calculated by the thumb Rule:

- (a) Thumb Rule of 1. Operations /bed/day True/False
- (b) Thumb Rule of 0.1 Operation /bed/day True/False
- © Thumb Rule of 0.3 Operations /bed/day True/False
- (d) Thumb Rule of 0.01 Operations /bed/day True/False

12. Delivery of gases such as Oxygen, Nitrous Oxide, Compressed air at the user end has to be :

- (a) at a controlled pressure of 2.22 Kg / Square CM True/False
- (b) at a controlled pressure of 2.44 Kg / Square CM True/False
- (c) at a controlled pressure of 4.22 Kg / Square CM True/False
- (d) at a controlled pressure of 2.24 Kg / Square CM True/False

13. To maintain infection-free environment, the

- (a) OT should have Central Air Conditioning with Laminar (vertical) airflow and 10-20 air changes/hour True/False
- (b) OT should have Central Air Conditioning with Laminar (horizontal) airflow and 10-20 air changes/hour True/False
- © OT should have Central Air Conditioning Laminar (vertical) airflow with 20-30 air changes/hour True/False
- (d) OT should have Central Air Conditioning Laminar (vertical + horizontal) airflow with 15-25 air changes/hour True/False

14. Which of the following statements is true ?

- (a) HEPA filters are to be regularly inspected and cleaned with 2% Bacillocid spray
- (b) Operation Rooms require controlled environment with temp range of 22°C (+ - 2°C) and Relative Humidity at about 55% (+ - 5%)
- © Split-unit air conditioner (AC) is ideal and highly recommended for Operation Rooms
- (d) None of the above

15. Which of the following is correct ?

Fumigation of Operation Rooms is a very effective measure for Infection Control in OT and is carried out by :

- (a) Spraying 10% Formalin solution in the operation rooms with a spray pump.
- (b) Exposing the operation rooms to vapours of Formalin 40% with the help of

OT Care machine for 10-12 hours.

© Cleaning /Washing the walls and floors with Savlon or Cetavlon solution.

(d) Exposure of the operation rooms to Ultra violet rays for 10-12 h.

16. Which of the following is an important considerations while designing the wards for inpatient services :

- (a) Direct observation of all the patients by nursing staff on duty.
- (b) Minimum travel distance between Nursing station and the farthest patient to cut down the nurse's fatigue.
- (c) Prevention of transmission of Hospital Acquired Infections among patients
- (d) Privacy of patients
- (e) All of the above

17. System of "Time Out" before surgical procedure was started :

- (a) To provide a break to the nurses for clean-up and disinfection of the area.
- (b) To provide physical rest to the surgical team during lengthy operative procedures.
- (c) To prevent Wrong Patient/Wrong Site/Wrong Surgery.
- (d) None of the above.

18. Which of the following problems can be addressed by use of Operations Research Techniques, such as Queuing theory.

- (a) Long length of queues
- (b) Long waiting time in the queues.
- © Long time taken for servicing at the counters
- (d) All of the above

19. Which of the following is true ?

In view of cost and efficiency considerations it is recommended that :

- (a) A hospital having >200 beds may have 2-4% of beds as ICU beds (Jain Committee).
- (b) For a viable ICU minimum 4 beds and maximum 10 beds are recommended.
- (c) Optimum size (often seen in many hospitals these days): 6-18 beds
- (d) All of the above

20. Which of the following is not correct ?

Bed-head panel in the ICU is supposed to have the following :

- (a) Piped gas and vacuum supply (2 oxygen outlets,2 vacuum outlets, 1 compressed air outlet),

- (b) 12 electric sockets (including 1 multi electric socket, 1 power socket and one computer outlet) for using the equipment,
- (c) Nurse call button and reading light through the bed head panel.
- (d) Television remote control switch and Relative call button