



قائمة الاسئلة

اختبار النهائي للعام الجامعي 2025/2024 - كلية الهندسة :: ادارة وتصميم مستشفيات - كلية الهندسة - قسم الطبية الحيوية - المستوى الرابع - 3 سا  
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- 1) Effective community orientation should be achieved by the hospital through taking the following procedure
  - 1) ☒ Policies that ensure the availability of services to all the people in the hospital's service area
  - 2) ☐ By choosing an architect experienced in hospital design and construction
  - 3) ☐ defines responsibilities and requires accountability for the various functions
  - 4) ☐ Identity short and long-range planning objectives
- 2) Some patients go to a hospital just for diagnosis, treatment, or therapy and then leave.
  - 1) ☒ Outpatients
  - 2) ☐ Inpatients
  - 3) ☐ private hospital
  - 4) ☐ None of them
- 3) What is the name of hospitals that dealing with specific medical needs such as psychiatric treatment.
  - 1) ☒ Specialized hospitals
  - 2) ☐ General hospital
  - 3) ☐ District hospital
  - 4) ☐ Teaching hospital
- 4) Measurement of requirement for hospital services takes account of a more positive approach by aiming at a quantitative estimation of the amount of illness in the community.
  - 1) ☒ need
  - 2) ☐ Demand
  - 3) ☐ None of them
- 5) Hospital buildings can rise very high, but there are limiting factors too, e.g.
  - 1) ☒ cost of construction methods, planning by laws
  - 2) ☐ functional utility
  - 3) ☐ ease of operations
  - 4) ☐ all of them
- 6) Central services in hospitals, are better located on the ground floor, this include:
  - 1) ☒ CSSD
  - 2) ☐ OT
  - 3) ☐ ICU
  - 4) ☐ Delivery suite
- 7) It should not be sandwiched between other departments.
  - 1) ☒ Radiology department site
  - 2) ☐ laboratory department site
  - 3) ☐ wards department site
  - 4) ☐ None of them
- 8) The X-ray rooms should be
  - 1) ☒ rectangular
  - 2) ☐ rectangular or square
  - 3) ☐ square
  - 4) ☐ None of them
- 9) The operating rooms should further be similar in design and character
  - 1) ☒ To make it easy for all surgeons to use them without a new set of conditions.
  - 2) ☐ To make it economy of manpower
  - 3) ☐ To make it less expensive for ventilation system
  - 4) ☐ All of them.
- 10) Grouping of all operating rooms in one central location in the form of an OT suite, it can reduce additional



accommodation by up to 90%

- 1) ☒ False
  - 2) ☐ True.
- 11) Which of the following must have a natural light for the whole area.
- 1) ☒ ICU.
  - 2) ☐ OT
  - 3) ☐ CSSD
  - 4) ☐ Radiology department
- 12) Which of the following hospitals combines between assistance to people and teaching nurses
- 1) ☒ Teaching hospitals
  - 2) ☐ Specialized hospitals
  - 3) ☐ General hospitals.
  - 4) ☐ District hospitals
- 13) Organized planning should be achieved by the hospital through the following
- 1) ☒ Identity short and long-range planning objectives with a list of priorities and target dates on which such objectives may be achieved.
  - 2) ☐ A public information program that keeps the community in touch with the hospital's goals, objectives and plans.
  - 3) ☐ Adequate attention to important concepts such as infection control and disaster planning.
- 14) Which of the following function of management that is involves motivation, leadership styles and proper communication.
- 1) ☒ Directing
  - 2) ☐ Controlling
  - 3) ☐ Coordinating
- 15) Which of the following function of management that is involves decision making and choosing future courses of action from the various alternatives
- 1) ☒ Planning
  - 2) ☐ Directing
  - 3) ☐ Controlling
  - 4) ☐ Organizing
- 16) Which of the following function of management that is intends to achieve an objective with the least use of man, machine, money and material and at the same time maximum satisfaction of the participants.
- 1) ☒ Evolution of Management Theory
  - 2) ☐ Planning
  - 3) ☐ Controlling
  - 4) ☐ Organizing
- 17) Maternity ward related to \_\_\_\_
- 1) ☒ Obstetrics and gynecology
  - 2) ☐ Neurology
  - 3) ☐ Oncology
  - 4) ☐ gynecology
- 18) Distribution of population increases hospital utilization.
- 1) ☒ by wider coverage of population
  - 2) ☐ by lower coverage of population
  - 3) ☐ by low bed occupancy rate
- 19) Ideal area for every bed in ICU.
- 1) ☒ 125-150 sq ft
  - 2) ☐ 20m square
  - 3) ☐ 125-150 sq meter



- 4) - 20 meter
- 20) The medical oxygen stored in cylinders at a pressure of \_\_\_\_.
- 1) ☒ + 13700 KPa
  - 2) ☐ - 13700 Pa
  - 3) ☐ - 137KPa
  - 4) ☐ - 13700 bar
- 21) Used to power pneumatically powered equipment
- 1) ☒ + Medical air
  - 2) ☐ - O<sub>2</sub>
  - 3) ☐ - N<sub>2</sub>O
  - 4) ☐ - CO<sub>2</sub>
- 22) Entonox is
- 1) ☒ + O<sub>2</sub> and N<sub>2</sub>O
  - 2) ☐ - helium and oxygen
  - 3) ☐ - O<sub>2</sub>
  - 4) ☐ - N<sub>2</sub>O
- 23) can be used for short term relief for procedures involving pain
- 1) ☒ + Entonox
  - 2) ☐ - Heliox
  - 3) ☐ - CO<sub>2</sub>
  - 4) ☐ - NO
- 24) Which of the following gas has excellent results with premature babies
- 1) ☒ + NO
  - 2) ☐ - helium and oxygen
  - 3) ☐ - O<sub>2</sub>
  - 4) ☐ - N<sub>2</sub>O
- 25) Combined with oxygen to reduce work of breathing with swollen upper airways
- 1) ☒ + Heliox
  - 2) ☐ - CO<sub>2</sub>
  - 3) ☐ - Entonox
  - 4) ☐ - N<sub>2</sub>O
- 26) In Oxygen concentrator–Semi-permeable membrane method Can produce
- 1) ☒ + 40% mixture of Oxygen and nitrogen
  - 2) ☐ - 90% mixture of Oxygen and nitrogen
  - 3) ☐ - 50% mixture of Oxygen and nitrogen
  - 4) ☐ - 90% mixture of Oxygen and CO<sub>2</sub>
- 27) Used in medical gases network to monitors the main gas lines and sources conditions
- 1) ☒ + Master alarm
  - 2) ☐ - Area alarm
  - 3) ☐ - Zone valves
  - 4) ☐ - Service valves
- 28) According to the ISO standard, oxygen should be labelled as \_\_\_\_.
- 1) ☒ + White
  - 2) ☐ - Yellow
  - 3) ☐ - Brown
  - 4) ☐ - Black
- 29) Nonflammable but supports combustion
- 1) ☒ + Medical air and O<sub>2</sub>
  - 2) ☐ - O<sub>2</sub>



- 3) - CO2
- 4) - Medical air
- 30) Refers to the set of technologies that contribute to the creation, distribution, and archiving of digital images.
- 1) ☒ PACS
- 2) - DICOM
- 3) - RIS
- 4) - HIS
- 31) It's a standard protocol for the transferring, displaying, and storing of medical images data
- 1) ☒ DICOM
- 2) - PACS
- 3) - RIS
- 4) - HIS
- 32) Essential power supply in OT
- 1) ☒ Normal power supply(50Hz/220v.)
- 2) - Genset
- 3) - Uninterruptible power supply(UPS)
- 33) HEPA filters remove 99% of airborne particles
- 1) ☒ True
- 2) - False
- 34) The suggested numbers of electrical outlets in OT should be Minimum
- 1) ☒ six outlets
- 2) - two outlets
- 3) - five outlets
- 35) Every plug in the OT which connected to generator is label with
- 1) ☒ yellow plug
- 2) - red plug
- 3) - white plug
- 4) - blue plug
- 36) Which of the following OT zone is designed around the aseptic zone.
- 1) ☒ Clean zone.
- 2) - Sterile zone.
- 3) - Protective zone.
- 4) - Disposal zone.
- 37) The Criteria for OT Zoning is
- 1) ☒ The risk factors associated with the possibility of infection with them become less and less clean zone.
- 2) - The OT suite organization revolves around the central aseptic
- 3) - work area
- 4) - Anesthesia induction rooms, anesthesia stores and anesthetists room
- 38) In OT the patient holding and preparation area' is earmarked in the
- 1) ☒ Clean zone.
- 2) - Sterile zone.
- 3) - Protective zone.
- 4) - Disposal zone.
- 39) The hospital should achieved high quality patient care by taking the following procedure?
- 1) ☒ defines responsibilities and requires accountability for the various functions
- 2) - Policies that ensure the availability of services to all the people in the hospital's service area.
- 3) - Identity short and long-range planning objectives
- 4) - By choosing an architect experienced in hospital design and construction



40) Hospitals usually are distinguished from other types of medical facilities by their ability to Providing the appropriate care for

- 1) ☒ Inpatients and Outpatients
- 2) ☐ Inpatients
- 3) ☐ Outpatients
- 4) ☐ None of them