

Program: BE Biomedical Engineering
Curriculum Scheme: Revised 2016
Examination: Final Year Semester VIII
Course Code: BMC802 and Course Name: Hospital Management

Time: 1 hour

Max Marks:50

- 1 Identify a management skills needed for an Organisation
 - (a) Problem creating
 - (b) Planning
 - (c) Instigating
 - (d) Demotivating
- 2 While managing a task, Hind sight is considered as _____
 - (a) 4th Stage
 - (b) 2nd Stage
 - (c) 1st Stage
 - (d) 3rd Stage
- 3 The Importance of Subconscious Motivation was first recognised and analysed by _____
 - (a) Mc Gregor
 - (b) Maslow
 - (c) Pareto
 - (d) Sigmund Freud
- 4 Identify the type of employee who lacks decision making capacity but can be given repetitive type of work
 - (a) Inefficient and Unwilling
 - (b) Inefficient and Willing
 - (c) Efficient and Unwilling
 - (d) Efficient and Willing
- 5 In Behavioural Theory of Hierarchical needs _____ are essential to sustain life
 - (a) Ego Needs
 - (b) Physiological needs
 - (c) Safety needs
 - (d) Self Actualization
- 6 Time management can be improved if one can _____
 - (a) Entertaining Drop In visitors
 - (b) Manage your workload
 - (c) Socialising on Job
 - (d) Procrastinate
- 7 If there are directives from CEO to Director for Administrative Services and then to Purchase Manager, then the lines of Communication becomes _____
 - (a) Upward Communication
 - (b) Downward Communication
 - (c) Horizontal Communication
 - (d) Grapevine Communication
- 8 Name the type of the budget planned which is considered to be a one time investment for a hospital.
 - (a) Deficit Budget
 - (b) Surplus Budget
 - (c) Operating Budget
 - (d) Capital Budget
- 9 Attending an accident case in casualty comes under _____ planning and utilization of time
 - (a) Important and urgent
 - (b) Urgent but not important
 - (c) Important but not urgent
 - (d) Not important and not urgent
- 10 Identify an example which can lead to Intra-Institutional conflict
 - (a) Interpersonal Agreement
 - (b) Impartiality
 - (c) Strong belief in value system and concepts
 - (d) Interpersonal Antagonism
- 11 _____ Is of paramount importance for effective and efficient operation of hospital
 - (a) Organization
 - (b) IPD
 - (c) OPD
 - (d) Imaging
- 12 Identify the features that differentiates the hospitals
 - (a) Location
 - (b) Philosophies and facilities
 - (c) Philosophies and objectives
 - (d) Founder name
- 13 The governing board delegates the actual authority of administration to
 - (a) Radiologist
 - (b) Chief executive officer
 - (c) Medical officer
 - (d) Doctor
- 14 CEO advises the _____ on the formulation of policies
 - (a) Human resource department
 - (b) Heads of departments
 - (c) Government
 - (d) Governing board
- 15 As per organizational chart the president comes before
 - (a) Governing board
 - (b) Medical superintendent
 - (c) Finance department
 - (d) Personnel officer
- 16 The day to day functioning of _____ department cant be the responsibility of the Director of nursing
 - (a) Maternal and child
 - (b) Operating rooms
 - (c) Clinical laboratories
 - (d) Medical and surgical
- 17 An office is designated to them in the hospital except _____
 - (a) Director of human resource
 - (b) Director administrative services
 - (c) Director of medical services

- (d) Members of the board
- 18 Members of board prohibited from
- (a) Making policies
- (b) Profiting in any way from membership
- (c) Visiting hospitals
- (d) Helping CEO
- 19 Laundry is usually located in _____
- (a) Near vicinity of OT
- (b) Basement
- (c) Backside of the hospital
- (d) Terrace
- 20 After sterilization the material is kept in _____
- (a) Green stores
- (b) Safety stores
- (c) General stores
- (d) Sterile stores
- 21 To protect the visitors outside the Radiology department from getting exposed to radiation
- (a) Walls are covered with lead sheets
- (b) Walls are covered with double layer of cement Sheets
- (c) Visitors are not allowed near Radiology department
- (d) Windows are covered with window panes
- 22 Operation theatres are maintained infection free by
- (a) Sterilization
- (b) Fumigation
- (c) Disinfection
- (d) Cleaning
- 23 In OT complex, office of anaesthesia chief is located in _____ zone
- (a) Unclean zone
- (b) Outermost zone
- (c) Inner most zone
- (d) Intermediate zone
- 24 Segregation of reusable in OT is the responsibility of _____
- (a) Trained nurse
- (b) Theatre superintendent
- (c) Theatre assistant
- (d) Labour staff
- 25 If the total attendance of outpatient services per year is say 20,000 patients then approximate area required for OPD is
- (a) 20,000 sq. Feet
- (b) 5,000 sq. Feet
- (c) 10,000 sq. Feet
- (d) 15,000 sq. Feet
- 26 Unidirectional flow of patients in OPD has following sequence
- (a) Patient In- Reception- Registration-Waiting Area- Clinical Examination
- (b) Patient In- Registration- Reception-Waiting Area- Clinical Examination
- (c) Patient In- Registration-Waiting Area- Reception - Clinical Examination
- (d) Patient In- Reception- Registration- Clinical Examination- Waiting Area
- 27 Routine care for old aged persons is taken care in _____ wards.
- (a) General ward
- (b) Infirmary ward
- (c) Female ward
- (d) Private wards
- 28 Beds kept in _____ are ordinarily not included in scheduled bed strength of the hospital.
- (a) General ward
- (b) Casualty
- (c) Female ward
- (d) Private wards
- 29 Records of medicolegal cases are kept in _____
- (a) OPD
- (b) Casualty
- (c) ICU
- (d) Operation Theatre
- 30 Organ imaging is carried out in _____ laboratory.
- (a) Haematology
- (b) Biochemistry
- (c) Radio isotope
- (d) Microbiology
- 31 Representative from _____ inspects facilities at Blood bank
- (a) FDA
- (b) AERB
- (c) NABH
- (d) NBA
- 32 Monitoring of stock of blood is carried out by-----
- (a) Purchase committee
- (b) Tender committee
- (c) Transfusion committee
- (d) Administrative Committee
- 33 Positioning of patient in Radiology department is done by
- (a) X-ray assistants
- (b) X-ray technicians
- (c) Qualified Radiologist
- (d) Nursing staff
- 34 Angiography is carried out by _____ section
- (a) Diagnostic Radiology
- (b) Interventional Radiology
- (c) Nuclear Medicine
- (d) Radiotherapy
- 35 Following equipment is installed in ICU.
- (a) X ray
- (b) CT scan
- (c) Gama Camera
- (d) Ventilator

- 36 Main facility required in Pharmacy department is _____
- Deep freezers
 - Centrifuge machine
 - Colorimeter
 - Ph meter
- 37 CSSD should located near
- Operation theatre
 - OPD
 - Blood Bank
 - Pharmacy
- 38 MRI and CT SCAN are installed in _____ department
- Radiology
 - CSSD
 - Pathology
 - Pharmacy
- 39 Auto analyzer is used in _____
- Biochemistry Lab
 - Radiology
 - CSSD
 - ICUs
- 40 Casualty department is responsible for-----
- Surgery
 - House keeping
 - First aid and emergency investigation
 - Dietary services
- 41 Oxygen is required in _____ machine.
- Ventilator
 - CT scan
 - MRI
 - Cautery
- 42 Hospital management prefers _____ department to outsource
- Surgery
 - Dietary Services
 - Microbiology
 - Pathology
- 43 Following is not a characteristic of good record
- Sufficient factual data
 - Detail clinical notes
 - Observations and advice given by concerned staff
 - Illegible hand writing
- 44 Pest controlling is the function of
- Housekeeping department
 - MSW
 - Security
 - Linen
- 45 Function of Biochemistry department is
- Supply sterile equipment
 - First aid
 - Testing of blood samples
 - Formulation of drug
- 46 Which of the following is major equipment used in Operation theatre
- Auto analyser
 - Blood Gas Analyser
 - Cautery machine
 - Blood cell counter
- 47 Type of contract in which regular maintenance is carried out periodically
- Comprehensive Contract
 - One time Contract
 - Annual Contract
 - Monthly Contract
- 48 The one of the requirement of the Biomedical Engineering department is
- Planned Maintenance and Functional Testing of medical instruments
 - Scheduling of OT
 - Civil maintenance
 - Landscaping
- 49 In inventory management the records maintained in a folder for each equipment include
- Requisition
 - Order details, Service and breakdown history
 - Manufacturer history
 - Equipment performance
- 50 Preventive Maintenance done for an equipment is
- Planned and schedule to prevent breakdown
 - For immediate repairs of vital equipment
 - For non urgent repairs – painting, replacing tiles etc.
 - For equipment on AMC or CMC
- Maintenance is usually a Planned Maintenance because i) Cost of equipment replacement is high ii) Indirect cost due to non-availability of equipment when urgently needed. Iii) Poorly maintained equipment is hazardous and expensive
- 51

- (a) i & iii
 - (b) ii & iii
 - (c) i & ii
 - (d) i, ii & iii
- 52 Which of the following is the part of hospital services except
- (a) Essential Services
 - (b) Additional Services
 - (c) Utility Services
 - (d) Administrative Services
- 53 The time elapsed from the point the machine fails to perform its function to the point it is repaired and brought into operating condition is known as
- (a) Down time
 - (b) Operating time
 - (c) Maintenance effectiveness time
 - (d) Calibration time
- 54 Internal external cleaning of the AKD machine is at type of
- (a) Corrective maintenance
 - (b) Scheduled maintenance
 - (c) Preventive maintenance
 - (d) Timely maintenance
- 55 Equipment history cards are meant to record i) The way equipment behaves ii) Total down time of the equipment iii) The rate at which different components wear off
- (a) i & ii
 - (b) i & iii
 - (c) i, ii & iii
 - (d) ii & iii
- 56 With the increase in preventive maintenance cost, breakdown maintenance cost
- (a) Increases
 - (b) Decreases
 - (c) Remain same
 - (d) Does not change
- 57 Engineering services should be located on
- (a) In a non-prime area away from patient care area
 - (b) Near OPD
 - (c) Near emergency
 - (d) Near OT
- 58 The lay out of the maintenance services should be designed for
- (a) Convenient movement of machines & equipment.
 - (b) Convenient movement of patient traffic
 - (c) Focus on providing space for storage and cabinets
 - (d) Aim for ambience
- 59 Functional area in the engineering services includes the following areas except
- (a) Administrative area
 - (b) Shop area
 - (c) Mechanical equipment area
 - (d) Cafeteria
- 60 Function of the electrical engineering services in the hospital is
- (a) The Maintenance of the Hospital's physical environment
 - (b) For environmental control including heating, ventilation and air-conditioning
 - (c) To uninterrupted water supply
 - (d) Smooth functioning of the laundry services
- 61 HVAC controls
- (a) Direction of air flow
 - (b) Air changes and flow velocity
 - (c) Heat content of the air
 - (d) Composition of the air
- 62 The following air filters are present in the HVAC system
- (a) After filters
 - (b) Macro filters
 - (c) HEPA filters
 - (d) Pre filters
- 63 In ICU HVAC system maintains _____ pressure to control infection
- (a) Positive
 - (b) Negative
 - (c) Atmospheric
 - (d) None
- 64 The department which requires only oxygen supply installation in the Medical gas system
- (a) Casualty
 - (b) AKD
 - (c) Operation theatre
 - (d) Wards
- 65 HEPA provides an atmosphere which is :
- (a) 70% Particulate free
 - (b) 80% Particulate free
 - (c) 90% Particulate free
 - (d) 110% Particulate free
- 66 Color-coding in medical gas system design is used as
- (a) As a gas identifier
 - (b) To indicate the toxicity level
 - (c) Pressure in the line
 - (d) Concentration
- 67 Air filters used in hospital Air conditioners are
- (a) Fibre glass filter
 - (b) Polyester pleated filter
 - (c) High Efficiency Particulate Arrestance filters
 - (d) Polypropylene filters

- 68 The medical gases installed in the hospital include
- Oxygen, Nitrous oxide and Medical air
 - CO, CO₂ and O₂
 - Nitrogen
 - Cooled air
- 69 Biomedical waste are classified under _____
- Classification I and II
 - Classification II and III
 - Classification I, II and III
 - Classification I and III
- 70 Biomedical Waste management rules apply for the following for waste in any form
- Generate, collect, treat and dispose
 - Segregate
 - Classify
 - Type
- 71 Average hospital waste produced per bed per day in Government hospital –
- 1–5–2.0 kg
 - 0.5–4 kg
 - 0.5–1 kg
 - 0.5–2 kg
- 72 Which colour code is used for dead or moribund patient and ambulatory patient respectively
- Red and Black
 - Black and Red
 - Green and Red
 - Black and Green
- 73 In an Air Curtain the airflow rate of _____ is desirable across an open door to _____
- 0.28 - 0.47 m /sec; prevent back flow into cleaner area.
 - 0.28 - 0.47 m /sec; prevent flow from the cleaner area.
 - 0.5 - 0.7 m /sec; prevent back flow into cleaner area.
 - 0.5 - 0.7 m /sec; prevent flow into cleaner area.
- 74 The scavenging effect is due to _____
- Exhaust system
 - Low level exhaust
 - Exhaust integrated with the AC
 - Air conditioning system
- 75 Plastic tubes used in biochemistry is pre -treated by _____ and disposed into _____ bag
- Sodium hypochlorite and white bag
 - Hydrogen peroxide and white bag
 - Calcium hypochlorite and black bag
 - Sodium hypochlorite and black bag
- 76 Disaster Management includes
- Mitigation and rehabilitation
 - Reasoning
 - Fault finding
 - Assessment
- 77 Hospital response to disaster is i) Notification &Preparation ii) Receiving Casualties iii) Stand down
- ii & iii
 - i & iii
 - i & ii
 - i, ii & iii
- 78 HIS uses a network of computers
- To gather, process, and retrieve patient care and administrative information for all hospital activities
 - It keep a watch on hospital functioning
 - Reduces the requirement of man power
 - Can identify theft and pilferage
- 79 The Blood Bank module provides ready information about
- Donation camps details
 - Blood donation information
 - Blood reserve/stock and total daily blood requisitions
 - Procedure for blood collection
- 80 In case of cardiac emergency the code _____ is announced
- Blue
 - Brown
 - Pink
 - Red
- 81 Materials Management includes all except
- Demand forecasting and planning
 - Inventory Control
 - Production
 - Purchasing
- 82 Identify an operative goal of Materials Management
- Poor Issue and Distribution
 - Improved losses and pilferage
 - Good vendor relationship
 - Poor control over material cost
- 83 _____ is the task of buying goods of right quality, in the right quantity, at the right time at the right price
- Supplying
 - Sorting
 - Purchasing
 - Scrutinizing
- 84 Purchases made according to the requirements is called
- Tender Buying
 - Hand to Mouth Buying
 - Seasonal Buying
 - Speculative Buying
- 85 Centralized purchases enhances
- Inventory Cost Reduction
 - No Discounts
 - Grievances are never addressed
 - Slower services

- 86 In ABC analysis, A corresponds to _____
- High level and very expensive items
 - Expensive items
 - Inexpensive items
 - Poor quality items
- 87 Of these all are the goal of Just in Time except
- Saves Time
 - Greater Flexibility
 - Invite Disruptions
 - Reduce Lead Time
- 88 In this method based on the last observed value forecast for the next period is calculated.
- Last period demand method
 - Arithmetic Average
 - Moving Average Method
 - Harmonic Average
- 89 If the inventory turn over is more or less than considered
- Working capital gets affected
 - Shelf life of the material has to be improved.
 - Place more orders
 - Call for more tenders.
- 90 Material cost can be controlled by selecting a _____
- Vendor living in another country
 - Vendor living locally
 - Vendor living in far off State
 - Vendor not ready for negotiation
- 91 A mismatch in the count in the items delivered at the draw point indicates _____
- Leakage
 - Damage
 - Pilferage
 - Shortage
- 92 Low safety stock indicates _____
- Poor stock out situation
 - No stock out situation
 - High stock out situation
 - No stock
- 93 Inventory cost can be controlled using _____
- ABC analysis
 - EOQ
 - AMC
 - CMC
- 94 All the consumables in a hospital comes under _____
- CAPEX
 - OPEX
 - EOQ
 - CMC
- 95 Inflating the prices secretly while purchasing a product and on this authorities observing vigilance will help reduce _____.
- Stock
 - Damage
 - Loss and Pilferage
 - Overall Expenditure
- 96 When an instrument is in working condition and a maintenance is performed, it can avoid unexpected breakdown. This is called as _____
- PMC
 - AMC
 - CMC
 - RBC
- 97 When the Working Bin gets empty, the store keeper provides Reserve Bin and requisition for new supplies are created. What type of storage method is this?
- One Bin System
 - Two Bin System
 - Three Bin System
 - Four Bin System
- 98 In VED Analysis V refers to how _____ an item is in a hospital.
- Vigilant
 - Vibrant
 - Vital
 - Voluminous
- 99 What is the full form of CAPEX?
- Common Expenditure
 - Constructive Expenditure
 - Capital Expenditure
 - Curative Expenditure
- 100 What is the full form of EOQ?
- Economic Order Quantity
 - Economic Overall Quantity
 - Expenditure on Ordered Quantity
 - Expenditure on Overall Quantity