

No.Admn/Asst.M(MEP)/Rectt/2026

Date: 12.05.2026

NOTIFICATION

Subject: Invitation for representation(s), if any, on the Questions and the Answer Keys of the written test, held for the post of Assistant Manager (MEP)

With reference to Advt. No. Admn/Rectt/2026/09 dated 18 Feb 2026 for the position of Assistant Manager (MEP).

Please find below the Question (Annexure-I) and the Answer Keys (Annexure-II) of the Written Test for the post of position of Assistant Manager (MEP) held on 11.05.2026.

Representation(s), if any, is/are invited from the candidates regarding the correctness of the answer(s) to any question(s), on the email id career@iimmumbai.ac.in latest by 14.05.2026, 01:30 p.m. To register your representation, an applicable fee of Rs 100 /- per question, has to be paid to the following account.

ACCOUNT NAME: IIM MUMBAI MISC RECEIPTS

BANK NAME : CANARA BANK

BRANCH NAME : IIT POWAI

ACCOUNT NO : 120037475430

IFSC CODE : CNRB0002724

UTR information for payment has to be shared along with the representation. If your representation is found to be correct, the amount paid shall be refunded.

BY ORDER

SECTION A — MULTIPLE CHOICE QUESTIONS

Q1. Which type of fire detector responds primarily to rise in temperature?

- A. Smoke detector
- B. Heat detector
- C. Flame detector
- D. Gas detector

Q2. Smoke detectors are best suited for detecting:

- A. Rapid flame fires
- B. Smouldering fires
- C. Electrical overloading only
- D. Gas leakage only

Q3. Flame detectors are commonly used in:

- A. Libraries
- B. Petrol storage areas
- C. Residential bathrooms
- D. Parking areas

Q4. A sprinkler system is mainly used for:

- A. Drainage
- B. Fire suppression
- C. Ventilation
- D. Water storage

Q5. The jockey pump in a fire protection system is used to:

- A. Supply main fire water
- B. Maintain system pressure
- C. Increase pump speed
- D. Drain pipelines

Q6. A wet riser system is mainly used in:

- A. Electrical systems
- B. Fire fighting systems
- C. HVAC systems
- D. Plumbing drainage systems

Q7. Which component is commonly associated with a wet riser system?

- A. Capacitor bank
- B. Landing valve
- C. Cooling coil
- D. Transformer oil tank

Q8. Which fire extinguisher is suitable for electrical fires?

- A. Water type
- B. Foam type
- C. CO₂ type
- D. Soda acid type

Q9. The primary purpose of earthing is to:

- A. Increase voltage
- B. Prevent electric shock
- C. Increase resistance
- D. Reduce lighting load

Q10. Which of the following is a method of earthing?

- A. Pipe earthing
- B. Plate earthing
- C. Rod earthing
- D. All of the above

Q11. RCCB/ELCB is mainly used for:

- A. Voltage boosting
- B. Earth leakage protection
- C. Frequency control
- D. Power factor improvement

Q12. Which condition causes an ELCB to trip?

- A. Overvoltage
- B. Earth leakage fault
- C. Low illumination
- D. Frequency fluctuation

Q13. The unit of electrical power is:

- A. Joule
- B. Volt

- C. Watt
- D. Ampere

Q14. Which instrument is used to measure insulation resistance?

- A. Clamp meter
- B. Voltmeter
- C. Megger
- D. Wattmeter

Q15. Power factor improvement is achieved using:

- A. Transformer
- B. Capacitor bank
- C. Relay
- D. Rectifier

Q16. Low power factor is mainly caused by:

- A. Resistive loads
- B. Inductive loads
- C. Capacitive loads
- D. DC loads

Q17. One effect of low power factor is:

- A. Lower electricity bill
- B. Lower current
- C. Higher electricity charges
- D. Improved efficiency

Q18. An isolator is mainly used for:

- A. Fault interruption
- B. Safe isolation during maintenance
- C. Voltage control
- D. Frequency regulation

Q19. An MCB protects circuits against:

- A. Earth leakage only
- B. Overload and short circuit
- C. Low voltage only
- D. Frequency fluctuation

Q20. Which circuit breaker is commonly used in HT systems?

- A. MCB
- B. SFU
- C. VCB
- D. RCCB

Q21. The full form of AMF is:

- A. Automatic Main Failure
- B. Auto Manual Function
- C. Automatic Mains Failure
- D. Alternating Main Feed

Q22. For parallel operation, transformers must have same:

- A. Tank size
- B. Voltage ratio and polarity
- C. Core material only
- D. Oil level

Q23. Unequal impedance in parallel transformers causes:

- A. Equal load sharing
- B. Unequal load sharing
- C. Increased efficiency
- D. Zero circulating current

Q24. Transformer efficiency is highest when:

- A. Voltage is minimum
- B. Copper loss equals iron loss
- C. Frequency is zero
- D. Secondary current is zero

Q25. The function of a relay is to:

- A. Store electrical energy
- B. Detect abnormal conditions
- C. Improve power factor
- D. Reduce resistance

Q26. Which gas is used in SF6 circuit breakers?

- A. Oxygen
- B. Nitrogen
- C. Sulphur Hexafluoride
- D. Hydrogen

Q27. Which transformer connection is widely used in distribution systems?

- A. Delta-Delta
- B. Star-Star
- C. Delta-Star
- D. Open Delta

Q28. The frequency of AC supply in India is:

- A. 25 Hz
- B. 40 Hz
- C. 50 Hz
- D. 60 Hz

Q29. Which instrument is used to measure earth resistance?

- A. Megger
- B. Earth tester
- C. Clamp meter
- D. Multimeter

Q30. LED lamps are preferred because of:

- A. High power consumption
- B. Low efficiency
- C. Energy efficiency and long life
- D. High heat generation

Q31. VRV stands for:

- A. Variable Refrigerant Volume
- B. Variable Return Ventilation
- C. Vapor Recovery Valve
- D. Voltage Regulation Valve

Q32. Compared to central AC systems, VRV systems provide:

- A. Higher duct losses
- B. Better zoning control
- C. Less flexibility
- D. Higher maintenance only

Q33. COP in refrigeration means:

- A. Capacity of Pump
- B. Coefficient of Performance
- C. Cooling Output Process

D. Compressor Operating Pressure

Q34. Cooling towers are mainly used to:

- A. Increase humidity
- B. Reject condenser heat
- C. Increase refrigerant pressure
- D. Store chilled water

Q35. Cooling towers work on the principle of:

- A. Radiation
- B. Conduction
- C. Evaporative cooling
- D. Compression heating

Q36. Which component compresses refrigerant vapor?

- A. Condenser
- B. Compressor
- C. Expansion valve
- D. Evaporator

Q37. AHU stands for:

- A. Air Handling Unit
- B. Air Heating Utility
- C. Air Humidity Unit
- D. Automatic Handling Unit

Q38. Dirty air filters in HVAC systems mainly cause:

- A. Improved cooling
- B. Increased airflow
- C. Reduced cooling efficiency
- D. Reduced power consumption

Q39. Fresh air ventilation in buildings is important for:

- A. Increasing humidity only
- B. Indoor air quality
- C. Reducing duct size
- D. Reducing lighting load

Q40. Which refrigerant property is desirable for efficient cooling?

- A. High toxicity
- B. High latent heat
- C. High boiling point
- D. Low pressure only

Q41. The purpose of a plumbing trap is to:

- A. Increase water pressure
- B. Prevent foul gases entering buildings
- C. Increase flow velocity
- D. Store wastewater

Q42. Grey water mainly comes from:

- A. Toilets
- B. Industrial waste
- C. Bathrooms and basins
- D. Chemical plants

Q43. Which valve prevents reverse flow in pipelines?

- A. Gate valve
- B. Globe valve
- C. Check valve
- D. Butterfly valve

Q44. Water hammer in pipelines is caused by:

- A. Slow valve operation
- B. Sudden stoppage of flow
- C. Pipe insulation
- D. Low pressure

Q45. CPVC pipes are commonly used for:

- A. Underground sewer lines
- B. Hot water supply systems
- C. Steam pipelines
- D. Fuel pipelines

Q46. STP in building services stands for:

- A. Steam Transfer Pump
- B. Storage Treatment Plant

- C. Sewage Treatment Plant
- D. Soil Transfer Process

Q47. GRIHA rating system is related to:

- A. Fire safety
- B. Green buildings
- C. Lift maintenance
- D. Electrical protection

Q48. The payback period refers to:

- A. Equipment life
- B. Warranty period
- C. Time required to recover investment cost
- D. Maintenance cycle

Q49. Preventive maintenance is mainly carried out to:

- A. Increase breakdowns
- B. Reduce safety
- C. Avoid unexpected failures
- D. Increase operating cost

Q50. BMS in modern buildings stands for:

- A. Building Mechanical System
- B. Building Management System
- C. Backup Monitoring System
- D. Boiler Management Setup

SECTION B — SUBJECTIVE QUESTIONS

All questions are compulsory to attend

Q51. Prepare a preventive maintenance schedule for a newly occupied institute building covering:

- Electrical systems
- HVAC systems
- Plumbing systems
- Fire fighting systems

Q52. Explain in brief the difference between:

- (i) DPMCB and Isolator
- (ii) Vertical DB and Horizontal DB
- (iii) MCB and ELCB

ANNEXURE-II

Q	Answer	Q	Answer
1	B	26	C
2	B	27	C
3	B	28	C
4	B	29	B
5	B	30	C
6	B	31	A
7	B	32	B
8	C	33	B
9	B	34	B
10	D	35	C
11	B	36	B
12	B	37	A
13	C	38	C
14	C	39	B
15	B	40	B
16	B	41	B
17	C	42	C
18	B	43	C
19	B	44	B
20	C	45	B
21	C	46	C
22	B	47	B
23	B	48	C
24	B	49	C
25	B	50	B