

Question Bank for Generation Engineer

On Job Training Questions:

- Q1. What are the tools and tackles required for vertical pump erection?
- Q2. What are the checks required before starting Boiler Feed Pump?
- Q3. What are important protections of turbine?
- Q4. What are important protections of Boiler?
- Q5. What checks are to be conducted before start of Pulveriser in Boiler?
- Q6. How the vacuum is created in condenser?
- Q7. What is to be ensured after trip-out with black-out?
- Q8. What precautions are essential during steam blowing of boiler/turbine piping?
- Q9. What are the investigation tools for finding reasons of boiler tube failure?
- Q10. What is the start-up procedure of turbine from cold condition?
- Q11. What are the losses in a Generator?
- Q12. What are the major electric systems in Thermal Power Plant?
- Q13: What is down comer?
- Q14. Function of ESP
- Q15. What should you do if you lost vacuum while operating a condensing turbine plant?
- Q16. Why is there a bursting diaphragm on a turbine casing?
- Q17. Do you stop cooling-water flow through a steam condenser as soon as the turbine is stopped?
- Q18. What is meant by critical speed?
- Q19. What is the purpose of a turning gear?
- Q20. What are the main causes of turbine vibration?
- Q21. Steam coming out from a turbine gland is wasteful. Why else should it be avoided?
- Q22. How is oil pressure maintained when starting or stopping a turbine?
- Q23. What is Cavitation and disadvantages of Cavitation?

Viva Questions:

- Q1. What is the largest pump in the thermal power plant?
- Q2. Why the Thermal efficiency of the steam power plant is quite low?
- Q3. What is independent power plant
- Q4. What are the differences between impulse and reaction turbines?
- Q5. What is the difference between partial and full arc admission?
- Q6. What are the stresses to which a steam turbine rotor is subjected during its service life?
- Q7: What is supercritical pressure boiler?
- Q8. Passivation of boiler tube?
- Q9: What function does draft plays in the combustion of fuel?
- Q10: How does a forced draft fan differ from induced draft fan?
- Q11. Why boiler blow-down is required?
- 12: Why hydrostatic test is conducted on a boiler?

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- Q13. What is a transformer and how does it work?
Q14. What type of cooling is provided for Generator in bigger power plant?
Q15. What are the common welding defects?
Q16. What are the differences between impulse and reaction turbines?
Q17. What are two types of clearance in a turbine?

Objective type Questions:

1. Thermal conductivity of solid metals with rise in temperature normally
 - a) increases
 - b) decreases
 - c) remains constant
 - d) may increase or decrease depending on temperature
 - e) unpredictable.
2. When heat is transferred from one particle of hot body to another by actual motion of the heated particles, it is referred to as heat transfer by
 - a) conduction
 - b) convection
 - c) radiation
 - d) conduction and convection
 - e) convection and radiation.
3. When heat is transferred from hot body to cold body, in a straight line, without affecting the intervening medium, it is referred to as heat transfer by
 - a) conduction
 - b) convection
 - c) radiation
 - d) conduction and convection
 - e) convection and radiation.
4. Sensible heat is the heat required to
 - a) change vapour into liquid
 - b) change liquid into vapour
 - c) increase the temperature of a liquid or vapour
 - d) convert water into steam and superheat it
 - e) convert saturated steam into dry steam.
5. The insulation ability of an insulator with the presence of moisture would
 - a) increase
 - b) decrease
 - c) remain unaffected
 - d) may increase/decrease depending on temperature and thickness of insulation
 - e) none of the above.
6. When heat is transferred by molecular collision, it is referred to as heat transfer by
 - a) conduction
 - b) convection
 - c) radiation
 - d) scattering
 - e) convection and radiation.
7. Heat transfer in liquid and gases takes place by
 - a) conduction
 - b) convection
 - c) radiation

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- d) conduction and convection
 - e) convection and radiation.
8. Which of the following is the case of heat transfer by radiation
- a) blast furnace
 - b) heating of building
 - c) cooling of parts in furnace
 - d) heat received by a person from fireplace
 - e) all of the above.
9. Heat is closely related with
- a) liquids
 - b) energy
 - c) temperature
 - d) entropy
 - e) enthalpy.
10. Total heat is the heat required to
- a) change vapour into liquid
 - b) change liquid into vapour
 - c) increase the temperature of a liquid or vapour
 - d) convert water into steam and superheat it
 - e) convert saturated steam into dry steam.
11. Cork is a good insulator because it has
- a) free electrons
 - b) atoms colliding frequency
 - c) low density
 - d) porous body
 - e) all of the above.
12. Temperature of steam at around 540°C can be measured by
- a) Thermometer
 - b) radiative pyrometer
 - c) thermistor
 - d) thermocouple
 - e) thermopile.
13. Heat flows from one body to other when they have
- a) different heat contents
 - b) different specific heat
 - c) different atomic structure
 - d) different temperatures
 - e) none of the above.
14. Thermal conductivity of glass-wool varies from sample to sample because of variation in
- a) composition
 - b) density
 - c) porosity
 - d) structure
 - e) all of the above.
15. Heat is transferred by all three modes of transfer, viz, conduction, convection and radiation in
- a) electric heater
 - b) steam condenser
 - c) melting of ice
 - d) refrigerator condenser coils
 - e) boiler.

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16. Heat transfer by radiation mainly depends upon
 - a) its temperature
 - b) nature of the body
 - c) kind and extent of its surface
 - d) all of the above
 - e) none of the above.
17. In heat exchangers, degree of approach is defined as the difference between temperatures of
 - a) cold water inlet and outlet
 - b) hot medium inlet and outlet
 - c) hot medium outlet and cold water inlet
 - d) hot medium outlet and cold water outlet
 - e) none of the above.
18. A steam pipe is to be insulated by two insulating materials put over each other. For best results
 - a) better insulation should be put over pipe and better one over it
 - b) inferior insulation should be put over pipe and better one over it
 - c) both may be put in any order
 - d) whether to put inferior OIL over pipe or the better one would depend on steam temperature
 - e) unpredictable.
19. Thermal conductivity of water in general with rise in temperature
 - a) increases
 - b) decreases
 - c) remains constant
 - d) may increase or decrease depending on temperature
 - e) none of the above.
20. The watt is the unit of:
 - a) power
 - b) magnetic flux
 - c) electromagnetic field strength
 - d) breakdown voltage
21. The unit for potential difference between two points in an electrical circuit is the:
 - a) Ampere
 - b) Volt
 - c) Ohm
 - d) Coulomb
22. Impedance is a combination of:
 - a) reactance with reluctance
 - b) resistance with conductance
 - c) resistance with reactance
 - d) reactance with radiation
23. What component will not be found in a thermal power plant?
 - a) Coal handling plant
 - b) Reactor building
 - c) Cooling tower
 - d) Turbine
24. Ultra mega power plants are those plant whose capacity is:
 - a) 1000 MW
 - b) 2000 MW
 - c) 3000 MW
 - d) 4000 MW

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25. Circulation ratio of super-critical boiler is:
- a) 1
 - b) 3~4
 - c) 7~8
 - d) >8
26. Which of following is not a Major equipments of thermal power plant:
- a) Steam generator
 - b) Switchyard
 - c) Penstock
 - d) Cooling tower
27. What is not a part of balance of plant in a thermal power plant:
- a) Fuel oil system
 - b) Synchronisation system
 - c) Compressed air system
 - d) Station water system
28. CEA does not provide guidelines for the following regulations:
- a) Tariff regulations
 - b) Trading margin regulations
 - c) Land selection criteria
 - d) Open access in inter-State Transmission Regulations
29. Health and safety at works act 1974 is not applicable to:
- a) All employees
 - b) All employers
 - c) Township residents
 - d) All suppliers to the plant
30. Which of the following is not a common transmission voltage?
- a) 11~33 KV
 - b) 33~132 KV
 - c) 132~220 KV
 - d) More than 220 KV
31. Which fan in boiler does not take suction from atmosphere?
- a) Forced draft fan
 - b) Induced draft fan
 - c) Primary air fan
 - d) None of the above
32. In which turbine the pressure drop occurs across only the stationary blades:
- a) Impulse turbine
 - b) Reaction turbine
 - c) Both of above
 - d) None of the above
33. Vacuum in condenser cannot be pulled/maintained by:
- a) Steam jet ejector
 - b) Centrifugal pump
 - c) Lobe pump
 - d) Gear pump
34. Turbine governing system does not provide oil for:
- a) Turbine speed control
 - b) Turbine valves opening
 - c) Bearing lubrication
 - d) Overspeed protection

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35. Which of the following is not performed by circuit breakers in power plant?
- a) Control the electrical equipment
 - b) Protect the electrical equipment
 - c) Isolate the electrical equipment
 - d) Monitor the electrical equipment
36. Which is not a basic requirement of protective device in electrical circuits:
- a) Safety
 - b) Economy
 - c) Accuracy
 - d) Compactness
37. What is not a basic condition for synchronisation process:
- a) Matching with line voltage
 - b) Matching with line frequency
 - c) Matching with line phase sequence
 - d) Running of cooling water system
38. What is not a part of coal handling plant in power station:
- a) Belt conveyor
 - b) Coal bunker
 - c) Stacker-reclaimer
 - d) Crushers
39. HFO is received in power plant through:
- a) Road tankers
 - b) Rail wagons
 - c) Both of the above
 - d) None of the above
40. Which of the following is not handled by Ash handling system:
- a) Bottom ash
 - b) Mill reject
 - c) Coarse ash
 - d) Fly ash
41. Which is not a part of cooling tower system:
- a) Forced draft
 - b) Balanced draft
 - c) Induced draft
 - d) Natural draft
42. What cannot be taken care of by Fire protection system:
- a) Fire detection
 - b) Fire avoidance
 - c) Fire suppression
 - d) Fire mitigation
43. What is not a part of procurement management:
- a) Planning for purchase
 - b) Solicitation of offer
 - c) Receipt at plant
 - d) Source Selection
44. What is not a basic responsibility of Stores management:
- a) Receipt of incoming goods
 - b) Certification of correct material
 - c) Storage and preservation
 - d) Inventory control

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45. What does not constitute a storage facility:
- a) Fork lift
 - b) Racks & shelves
 - c) Box pallets
 - d) Block racks
46. What construction related equipment cannot be used in open:
- a) Concrete pump
 - b) Tower crane
 - c) Electric overhead crane
 - d) Bulldozer
47. What part of structures is essential for boiler drum lifting:
- a) Columns
 - b) Beams
 - c) Platforms
 - d) Ceiling girders
48. What is not a part of boiler pressure parts:
- a) Water wall
 - b) Economiser
 - c) Air pre-heater
 - d) Re-heater
49. What is not a part of standard heat treatment process of weld joints in boiler:
- a) Pre-heating of joint
 - b) Post heating of joint
 - c) Magnetic particle test of the joint
 - d) Stress relieving of the joint
50. What is not an axial fan in the boiler:
- a) Scanner air fan
 - b) Induced draft fan
 - c) Forced draft fan
 - d) Primary air fan
51. Pulverisers receive coal from:
- a) Belt conveyor
 - b) Coal bunker
 - c) Coal feeder
 - d) Coal pipes
52. Maximum rotor run-out and misalignment allowed in turbine is:
- a) ± 0.03 mm
 - b) ± 0.1 mm
 - c) ± 0.25 mm
 - d) ± 0.5 mm
53. Preferred grouting height for pedestals and base plates is:
- a) < 50 mm
 - b) $50 \sim 70$ mm
 - c) $70 \sim 100$ mm
 - d) It does not matter
54. Which is not a critical check during turbine erection:
- a) Bump check
 - b) Dye penetration check
 - c) Horn drop check
 - d) Swing check

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55. What is not a part of Generator system:
- Governing system
 - Stator cooling water system
 - Gas system
 - Excitation system
56. Steam line s drain line slope should be:
- 10 mm/M
 - 15 mm/M
 - 20 mm/ M
 - 25 mm/M
57. TDBFP (turbine driven BFP) is placed in TG hall on the:
- Zero meter floor
 - Mezzanine floor
 - TG floor
 - Deaerator floor
58. Typically Wagon tippers are designed to unload:
- 05 wagons per minute
 - 10 wagons per minute
 - 20 wagons per minute
 - 40 wagons per minute
59. Ash conveying system is designed on the principle of:
- Lean phase (vacuum) conveying
 - Dense phase (Pressure) conveying
 - Both of the above
 - Either of the above
60. Operation Engineer is not supposed to:
- Start-up the unit
 - Monitor the operating unit
 - Maintain the equipment
 - Issue permit to work
61. What condition is not a must for boiler light-up:
- Drum level should be normal
 - Air flow should be >30% and <40% of rated flow
 - Air Pre-heater should be running
 - BFP should be running
62. What condition is not a must for turbine rolling:
- Turbine should be on barring gear
 - Cooling water should be charged through condenser
 - Generator coolers should be charged
 - Governing system should be ready after testing
63. What condition is not a must for putting turbine on barring gear;
- Lubricating oil pressure is sufficient
 - Jacking oil pressure is sufficient and set
 - Turbovisory system is available
 - Condensate pump is in operation.
64. What is not a trip condition for turbine:
- Lube oil pressure is low
 - Axial shift is high
 - Vacuum is low
 - Deaerator tank level is high

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65. Which fan is started first while establishing flue gas flow in boiler:
- Induced draft fan
 - Primary air fan
 - Forced draft fan
 - Scanner air fan
66. During warm/hot rolling of turbine main steam temperature should be:
- Equal to casing temperature
 - Rated temperature at full load
 - At least 25°C higher than casing temperature
 - At least 100°C more than casing temperature
67. Silica limit in main steam to turbine is:
- 20 ppb
 - 200 ppb
 - 2 ppm
 - 20 ppm
68. What is not a part of daily routine check of pumps in power plant:
- Bearing drain oil temperature
 - Open condition of inlet/outlet valve
 - Alignment of the pump
 - Current drawn by the motor
69. What function do not happen in case of turbine trip-out:
- Main steam stop valves must be closed.
 - NRV's on extraction lines must get closed.
 - Barring gear should get engaged.
 - Generator circuit breaker should be open.
70. Which of the following cannot be an effect of partial load throw off due to high frequency:
- Disturbance in condenser level
 - Disturbance in condenser vacuum
 - Disturbance in lubricating oil pressure
 - Decrease of load on generator
71. Which of the following will not cause loss of vacuum during operation of plant:
- Steam ejector not getting sufficient steam pressure
 - High level in condenser
 - High pressure in gland sealing steam
 - CW pump failure
72. Which of the following is not a main area of maintenance management:
- Work management
 - Load management
 - Plant condition control
 - Cost control
73. What is not a type of maintenance:
- Perceptive
 - Preventive
 - Proactive
 - Predictive
74. What is not a maintenance requirement:
- To increase availability
 - To increase generation
 - To decrease forced outage
 - To replace damaged components

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75. What is not a reason of deficiency in performance:
- a) High power consumption
 - b) Low discharge pressure
 - c) High vibration
 - d) Direction of rotation
76. What is not an identification tool in maintenance:
- a) Vibration measurement
 - b) Tribology
 - c) Thermography
 - d) Ultrasound
77. What is not a tool to establish fault location:
- a) Insulation resistance test
 - b) Dye penetration test
 - c) Magnetic particle inspection
 - d) Ultrasonic test
78. What is not a failure mechanism in turbine:
- a) Leakage
 - b) Corrosion
 - c) Erosion
 - d) Fatigue
79. What is not a failure mechanism in generator:
- a) Foreign object damage
 - b) Drop in hydrogen pressure
 - c) Overheating
 - d) Stator wedge looseness
80. What is not a cause of long term overheating in boiler tube:
- a) Operation beyond design life
 - b) Partial blockage
 - c) Starvation of steam/water flow
 - d) Rogue material
81. What is not a type of weld joint:
- a) Straight joint
 - b) Butt joint
 - c) Lap joint
 - d) Tee joint
82. What is not a welding process related defect:
- a) Porosity
 - b) Overcut
 - c) Overlap
 - d) Spatter
83. The minimum replacement tube length should not be less than:
- a) 75 mm
 - b) 100 mm
 - c) 125 mm
 - d) 150 mm
84. Turbine casings are opened for inspection during:
- a) Capital overhauling
 - b) Intermediate inspection
 - c) Both of the above
 - d) None of the above

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85. Inspection for faults in blades is carried out by:
- Magnetic particle inspection
 - Natural frequency test
 - Both of the above
 - None of the above
86. In condensate pump, no liquid delivery problem will not happen due to:
- Pump not primed
 - Misalignment of pump
 - Suction line obstruction
 - Impeller clogged
87. The permissible value of BDV (break down voltage) of transformer oil of 220 KV transformer is:
- ≥ 30 KV
 - ≥ 40 KV
 - ≥ 50 KV
 - None of these
88. By DGA (dissolved gas analysis) which one of the following cannot be detected:
- Arcing of high current break down
 - Short circuit of transformer
 - Partial discharge
 - Sustained over loading
89. What is not a part of motor maintenance program:
- Motor relay inspection
 - Bearing inspection
 - Rotor/stator inspection
 - Motor mounting inspection
90. What is not covered under CEA gazette notification of 2010:
- Thermal power life shall not be less than 25 years
 - Noise level shall not exceed 85 dBA at a distance of 1 meter
 - All surfaces having $>600^{\circ}\text{C}$ temperature shall be insulated.
 - Thermal power plant shall be 15 KM away from Town
91. What is not mandatory as per provisions of Fire protection system:
- Fire buckets with sand
 - Fire extinguishers
 - Fire safety suits
 - First-aid boxes
92. What is not defined as possible hazard:
- Strike the work
 - Careless approach
 - Inadequate instructions
 - Damaged tools and equipment
93. The fundamental of safe working is:
- Follow operating instructions
 - Deploy proper tools
 - Proper authorisation to work
 - Only first two of the above
 - All three of the above
94. What is not a Safety Requirements Applicable at Work:
- Wear personal protective equipment
 - Report for duty in time
 - Use tools in a proper manner

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- d) Always follow safety procedure
95. What are the ingredients of fire:
- a) Oxygen
 - b) Fuel
 - c) Heat
 - d) Any two of the above
 - e) All three of the above
96. What is not a proper step in developing workplace policy:
- a) Management's direction
 - b) Define the terms of policy
 - c) Put the policies in writing
 - d) Inform the staff members
97. What is a proper way of effective communication:
- a) Verbal communication
 - b) Body language
 - c) Facial expression
 - d) Eye contact
98. What is not an element of active listening:
- a) Pay attention
 - b) Provide feedback
 - c) Make judgment
 - d) Respond appropriately
99. Effective communication practices lead to:
- a) Clear responsibilities
 - b) Conflict between employee and management
 - c) Overload of information
 - d) Limited feedback
100. What is not the characteristic of disciplined behaviour:
- a) Use of office equipment or facility
 - b) Maintain work standard
 - c) Be punctual
 - d) Respect oneself and others
101. What is not a good interpersonal skill:
- Positive attitude
- Inclusiveness
- Persuasiveness
- Social awareness
102. What is a hindrance in developing working relationship:
- a) Assertiveness
 - b) Self interest
 - c) Decision making
 - d) Problem solving
- Q103. How do we check the temperature rise of Switchyard jumpers, Droppers, CT /PT/Breakers Connection?
- a) Lux measurement
 - b) Vibration Probe
 - c) Ultra violet measurement
 - d) Thermal imaging
- Q104. A Current Transformer is connected in _____ with the line.
- a) Series.

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- b) Across
 - c) Not Connected
 - d) Both a and b
- Q105. PLCC stands for
- a) Power Line Communication Cable
 - b) Power Load Communication Carrier
 - c) Power Line Carrier Communication
 - d) Power Load Carrying Capacity
- Q106. Standard frequency usually for electric supply is
- a) 50 Hz
 - b) 60 Hz
 - c) 50 to 60 Hz
 - d) 50 to 55 Hz.
- Q107. Buchholz relay is especially suitable for which type of transformer?
- a) Ground transformer
 - b) Oil immersed transformer
 - c) Current transformer
 - d) Potential transformer
- Q108. What is GCB and where it is typically installed in plant?
- a) Generator Circuit Breaker / Between Generator and Generator Transformer
 - b) Gas Circuit Breaker / after Generator Transformer
 - c) Generator Circuit Breaker / Between Generator and Unit Transformer
 - d) None
- Q109. What is the cooling medium for typically big Generator?
- a) Hydrogen
 - b) Water
 - c) Air
 - d) Both a & b above
- Q110. Electrostatic precipitator is installed between
- a) Boiler furnace and Economizer.
 - b) Induced Draft fan and chimney.
 - c) Air pre-heater and Induced Draft fan.
 - d) Economizer and air pre-heater.
- Q111. During normal unit operation auxiliaries supply is taken from
- a) Station Start up transformer
 - b) Unit Transformer
 - c) Generator Transformer
 - d) None of the above
- Q112. In electrostatic precipitator
- a) Emitting electrodes are supplied with high DC voltage & collecting electrode earthed
 - b) High DC voltage supplied to both the electrodes
 - c) High DC voltage is supplied to collecting electrodes & emitting electrode earthed
 - d) None of the above
- Q113. A turbo generator is
- a) 2-Pole Machine
 - b) 4-Pole Machine
 - c) 6-Pole Machine
 - d) All of the above
- Q114. Oil is used in a transformer

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- a) For cooling purpose
 - b) As insulation
 - c) Both a & b above
 - d) None of the above
- Q115. Cells are connected in series in order to
- a) Increase the voltage rating.
 - b) Increase the current rating.
 - c) Increase the AH of cells.
 - d) None of the above
- Q116. The indication of the state of charge of a battery is best given by
- a) Level of electrolyte.
 - b) Specific gravity of electrolyte.
 - c) Temperature of electrolyte.
 - d) Color of electrolyte.
- Q117. Two types of earthings are provided: (a) Equipment earthing and (b) Neutral point earthing. Equipment earthing is provided for
- a) Safety of human being
 - b) Safety of equipments
 - c) Safety of starters and cables
 - d) None
- Q118. Polarization index is the ratio of Megger value taken for
- a) Megger value taken for 1 minute.
 - b) 10 minutes to the Megger value taken for 1 minute.
 - c) 5 minutes to the Megger value taken for 1 minute.
 - d) 2 minutes to the Megger value taken for 1 minute.
- Q119. Pulverized coal is
- a) Coal free from ash.
 - b) Nonsmoking coal.
 - c) Coal which burns for long time.
 - d) Coal broken in fine particles.
- Q120. Equipment used for pulverizing the coal is the
- a) Coal Crushers
 - b) Coal Mills
 - c) Conveyors
 - d) Hoppers
- Q121. The rotor of a Turbo-Generator is a:
- a) Four pole cylindrical m/c having concentric-winding
 - b) Two pole cylindrical m/c having concentric-winding
 - c) Two pole salient m/c having concentric-winding
 - d) None of the above
- Q122. What is OLTC for Transformer
- a) On load Tap Changer
 - b) Off Load Tap Changer
 - c) Both a & b
 - d) None of the above
- Q123. The step/ condition for line-up of LDO forwarding pump are :
- a) Open supply valve from tank
 - b) Open isolation valves of recirculation line.
 - c) Open suction filter I/L and O/L valve and open discharge valve.
 - d) Vent it properly from strainer, open discharge valve.

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- e) All of the above
- Q124. List the fire-fighting systems installed for LDO tanks are :
- a) Hydrant system for outside tank
 - b) Foam system for inside tank
 - c) Water spray system
 - d) (a) & (b) of the above
- Q125. The venting is to be done before starting the LDO/HFO pumps?
- a) To remove air pockets from the oil lines
 - b) To remove gas pockets from the oil lines
 - c) To remove residue of oil pockets from the oil lines
 - d) None of the above
- Q126. The drains are to be kept open during charging of steam tracing lines?
- a) Remove condensate from steam lines
 - b) Remove air from steam lines
 - c) Remove gases from steam lines
 - d) None of the above
- Q127. In a Centrifugal Pump, when delivery valve is fully closed, the pressure of the fluid inside the pump will:
- a) Increase
 - b) Reduce
 - c) Remain unaltered
 - d) Becomes zero
- Q128. The clearance between two matching surfaces is accurately checked by:
- a) Optical gauge
 - b) Snap gauge
 - c) Feeler gauge
 - d) All of the above
- Q129. The three essentials for good combustion are:
- a) Fuel, air and ignition energy
 - b) Time, temp. and turbulence
 - c) Air ignition energy & small particle size
 - d) More volatile matter, air & ignition energy.
- Q130. The cavitation in a centrifugal pump is caused by:
- a) High Velocity of fluid
 - b) Low barometric pressure
 - c) Low pressure of fluid
 - d) All of the above.
- Q131. A device attached to the steam chest whose function is to keep the steam pressure within allowable limit is known as:
- a) Fusible plug
 - b) Blow off cock
 - c) Water level indicator
 - d) Safety valve
- Q132. Air pre-heater in a boiler will invariably be located between:
- a) Economizer & Feed Pump
 - b) Boiler furnace & chimney
 - c) Forced draft fan & furnace
 - d) Condense & feed pump

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Questions with True/False option:

1. Before starting any equipment, Operation Engineer must confirm that all permits have been cancelled and interlock & protection is available. (True/False)
2. Heavy fuel oil firing can be done simultaneous with light diesel oil firing. (True/False)
3. Blowdown is compulsorily given irrespective of impurity quantity in steam/water in the boiler. (True/False)
4. Routine checking of equipment is carried out irrespective of its operating condition. (True/False)
5. HP & LP heaters can be charged from water side before rolling of turbine. (True/False)
6. Maintaining hard copies of all operational data is mandatory. (True/False)
7. Sand blasting is the removal of dirt from a blade by a jet carrying abrasives. (True/False)
8. A near miss does not result in injury, illness and damage or product loss. (True/False)