Participant ID	
Participant Name	
Test Center Name	
Test Date	29/09/2024
Test Time	1:30 PM - 3:30 PM
Subject	Junior Engineering Assistant IV P and U

Section : **Subject Knowledge**

Q.1 **The ratio of mass flow rate and volume flow rate gives the unit of:**

Ans
- ✗ A. specific volume
- ✗ B. weight density
- ✓ C. mass density
- ✗ D. specific gravity

Question ID : **6306801010519**
Option 1 ID : **6306803965566**
Option 2 ID : **6306803965568**
Option 3 ID : **6306803965567**
Option 4 ID : **6306803965569**
Status : **Answered**
Chosen Option : **B**

Q.2 **When starting the condensate extraction pump (CEP) in a steam turbine system, which of the following actions should be performed if there is a vacuum inside the condenser?**

Ans
- ✗ A. Close the condensate inlet and outlet valves
- ✗ B. Increase the differential pressure of the strainer
- ✗ C. Start the pump without any additional steps
- ✓ D. Open the vacuum balance valve

Question ID : **630680996449**
Option 1 ID : **6306803909528**
Option 2 ID : **6306803909530**
Option 3 ID : **6306803909531**
Option 4 ID : **6306803909529**
Status : **Answered**
Chosen Option : **D**

Q.3 Pressure (p) is the force per unit area applied in a direction perpendicular to the surface of an object. It is the resultant effect o

Ans
- ✗ A. kgf/m2
- ✗ B. lbf/in2
- ✓ C. Pascal (Pa)
- ✗ D. bar

Q.4 **The permissible limit of the boiler water TDS is 60 mg/L. If the TDS of boiler feedwater is 10 mg/L, then what is the percentage blowdown? (TDS total dissolved solids)**

Ans

✔ A. 20%

✘ B. 10%

✘ C. 30%

✘ D. 40%

Question ID : **6306801008775**
Option 1 ID : **6306803958623**
Option 2 ID : **6306803958622**
Option 3 ID : **6306803958624**
Option 4 ID : **6306803958625**
Status : **Answered**
Chosen Option : **C**

Q.5 **Read the given descriptions of pressure-sensing elements.**

1. Utilises a curved, flexible tube that straightens under applied pressure
2. Involves a piston that compresses a spring when pressure is applied
3. Employs an expandable component resembling an accordion to measure pressure
4. Uses a thin, flexible membrane that deforms when pressure is exerted on it

Which of these descriptions matches the pressure-sensing element commonly used in process pressure measurement, specifically suited for detecting small pressure changes with high accuracy?

Ans

✘ A. Only description 3 is correct

✔ B. Only description 4 is correct

✘ C. Only description 1 is correct

✘ D. Descriptions 1 and 2 are correct

Question ID : **630680996764**
Option 1 ID : **6306803910790**
Option 2 ID : **6306803910791**
Option 3 ID : **6306803910788**
Option 4 ID : **6306803910789**
Status : **Answered**
Chosen Option : **D**

Q.6 **Why are both ID fan and FD fan important in a boiler system?**

Ans

✘ A. ID fan generates electricity, while FD fan transfers heat.

✘ B. ID fan and FD fan both supply combustion air but at different stages.

✔ C. ID fan evacuates combustion products, while FD fan supplies combustion air.

✘ D. ID fan and FD fan both evacuate combustion products but in different directions.

Question ID : **630680996702**
Option 1 ID : **6306803910541**
Option 2 ID : **6306803910542**
Option 3 ID : **6306803910540**
Option 4 ID : **6306803910543**
Status : **Answered**
Chosen Option : **C**

Q.7 **What is the primary characteristic that distinguishes wet steam from dry, saturated steam?**

Ans

✔ A. Wet steam contains water particles, while dry steam does not.

✘ B. Wet steam is visible and contains water droplets.

✘ C. Wet steam has a higher temperature than dry steam.

✘ D. Wet steam is heavier and more dense than dry steam.

Question ID : **630680996429**
Option 1 ID : **6306803909450**
Option 2 ID : **6306803909448**
Option 3 ID : **6306803909449**
Option 4 ID : **6306803909451**
Status : **Answered**
Chosen Option : **D**

Q.8 What is the primary effect of heating the sensor in a liquid expansion type temperature-measuring device?

Ans
✗ A. The liquid inside the sensor solidifies, causing a decrease in pressure.
✗ B. The liquid inside the sensor remains unchanged, with no effect on pressure.
✗ C. The liquid inside the sensor contracts and its density increases.
✓ D. The liquid inside the sensor expands or evaporates, increasing pressure.

Question ID : **630680996649**
Option 1 ID : **6306803910331**
Option 2 ID : **6306803910330**
Option 3 ID : **6306803910328**
Option 4 ID : **6306803910329**
Status : **Answered**
Chosen Option : **C**

Q.9 What happens to the boiler efficiency when the economiser is removed?

Ans
✗ A. It becomes optimal.
✗ B. It increases.
✗ C. It remains the same.
✓ D. It decreases significantly.

Question ID : **6306801004178**
Option 1 ID : **6306803940759**
Option 2 ID : **6306803940757**
Option 3 ID : **6306803940758**
Option 4 ID : **6306803940760**
Status : **Answered**
Chosen Option : **D**

Q.10 As per the Indian Boiler Act, 1923, the boiler which is used for generating steam under pressure is any closed vessel:

Ans
✗ A. having 8.75 L to 14.75 L capacity
✗ B. having less than 8.75 L capacity
✓ C. exceeding 22.75 L capacity
✗ D. having 14.75 L to 22.75 L capacity

Question ID : **6306801008741**
Option 1 ID : **6306803958487**
Option 2 ID : **6306803958486**
Option 3 ID : **6306803958489**
Option 4 ID : **6306803958488**
Status : **Answered**
Chosen Option : **C**

Q.11 How is waste heat recovered in an economiser?

Ans
✗ A. By using the heat of the flue gases to preheat the boiler fuel
✓ B. By transferring flue gas heat to feedwater through convection
✗ C. By transferring heat from pressurised feedwater to flue gases
✗ D. By generating steam from the heat of the flue gases

Question ID : **6306801004239**
Option 1 ID : **6306803940932**
Option 2 ID : **6306803940930**
Option 3 ID : **6306803940929**
Option 4 ID : **6306803940931**
Status : **Answered**
Chosen Option : **A**

Q.12 How can a user align the text within a text box in MS PowerPoint?

Ans
✓ A. By using the 'Paragraph' group in the 'Home' tab
✗ B. By pressing Ctrl + A
✗ C. By dragging and dropping the text to the desired position
✗ D. By right-clicking on the text and selecting 'Align'

Question ID : **630680745630**
Option 1 ID : **6306802922695**
Option 2 ID : **6306802922698**
Option 3 ID : **6306802922696**
Option 4 ID : **6306802922697**
Status : **Answered**
Chosen Option : **D**

Q.13 **In a boiler power plant, a pressure gauge is calibrated to read 0-1000 kPa. The gauge is installed to measure the steam pressure. If the gauge reads 650 kPa, what is the range of the actual steam pressure? (Assume an accuracy of 1% for this gauge.)**

Ans
- ✗ A. 645 kPa to 665 kPa
- ✗ B. 635 kPa to 655 kPa
- ✗ C. 650 kPa to 670 kPa
- ✓ D. 640 kPa to 660 kPa

Question ID : **6306801003881**
Option 1 ID : **6306803939747**
Option 2 ID : **6306803939745**
Option 3 ID : **6306803939748**
Option 4 ID : **6306803939746**
Status : **Answered**
Chosen Option : **C**

Q.14 **Which of the following sums up an IBR boiler the best?**

Ans
- ✓ A. A boiler that must comply with specific design and material standards under the Indian Boiler Regulations
- ✗ B. A boiler primarily used for residential heating
- ✗ C. A boiler that operates without any need for periodic inspection
- ✗ D. A boiler that does not require any formal certification for operation

Question ID : **6306801010865**
Option 1 ID : **6306803966922**
Option 2 ID : **6306803966923**
Option 3 ID : **6306803966924**
Option 4 ID : **6306803966921**
Status : **Answered**
Chosen Option : **D**

Q.15 **Which of the following devices is designed to increase the thermal efficiency of a boiler system by recovering residual heat from the flue gases?**

Ans
- ✗ A. Air preheater
- ✗ B. Boiler drum
- ✗ C. Superheater
- ✓ D. Economiser

Question ID : **6306801003814**
Option 1 ID : **6306803939458**
Option 2 ID : **6306803939460**
Option 3 ID : **6306803939459**
Option 4 ID : **6306803939457**
Status : **Answered**
Chosen Option : **D**

Q.16 **What is the typical range of excess air or oxygen levels at which a boiler is expected to operate for the highest efficiency?**

Ans
- ✗ A. 5 - 10% excess air or 1 - 2% oxygen
- ✗ B. 30 - 40% excess air or 6 - 8% oxygen
- ✗ C. 20 - 30% excess air or 4 - 6% oxygen
- ✓ D. 10 - 20% excess air or 2 - 4% oxygen

Question ID : **630680996632**
Option 1 ID : **6306803910260**
Option 2 ID : **6306803910263**
Option 3 ID : **6306803910262**
Option 4 ID : **6306803910261**
Status : **Answered**
Chosen Option : **C**

Q.17 **A gas has a temperature of 27°C. What is its temperature in Kelvin and Rankine?**

Ans
- ✗ A. 300.15 K and 850.67°R
- ✗ B. 273.15 K and 491.67°R
- ✓ C. 300.15 K and 540.27°R
- ✗ D. 273.15 K and 509.67°R

Question ID : **630680996665**
Option 1 ID : **6306803910394**
Option 2 ID : **6306803910392**
Option 3 ID : **6306803910393**
Option 4 ID : **6306803910395**
Status : **Answered**
Chosen Option : **A**

Q.18 **Which of the following mountings is used in high-pressure boilers, specifically designed to release steam automatically when the pressure exceeds a safe limit?**

Ans
- ✗ A. Water level indicator
- ✓ B. Safety valve
- ✗ C. Pressure gauge
- ✗ D. Temperature gauge

Question ID : **6306801002346**
Option 1 ID : **6306803933482**
Option 2 ID : **6306803933483**
Option 3 ID : **6306803933484**
Option 4 ID : **6306803933481**
Status : **Answered**
Chosen Option : **B**

Q.19 **If, during operation of the boiler, the pressure gauge reads zero pressure, what should be done?.**

Ans
- ✗ A. Increase the fuel flow to the boiler
- ✗ B. Open parts of boiler to vary the risk of explosion
- ✓ C. Check for water level issues and potential boiler shutdown
- ✗ D. Reduce the load on the boiler

Question ID : **6306801006847**
Option 1 ID : **6306803951122**
Option 2 ID : **6306803951125**
Option 3 ID : **6306803951123**
Option 4 ID : **6306803951124**
Status : **Answered**
Chosen Option : **C**

Q.20 **Why is an IBR boiler mandated to have a pressure gauge and safety valve?**

Ans
- ✗ A. To reduce fuel consumption
- ✓ B. To ensure operational safety and compliance with regulations
- ✗ C. To increase steam output
- ✗ D. To improve boiler efficiency

Question ID : **6306801004615**
Option 1 ID : **6306803942348**
Option 2 ID : **6306803942346**
Option 3 ID : **6306803942347**
Option 4 ID : **6306803942345**
Status : **Answered**
Chosen Option : **B**

Q.21 **DRAM stands for _____.**

Ans
- ✗ A. Digital Random Access Memory
- ✗ B. Dual Random Access Memory
- ✓ C. Dynamic Random Access Memory
- ✗ D. Direct Random Access Memory

Question ID : **6306801035721**
Option 1 ID : **6306804065794**
Option 2 ID : **6306804065793**
Option 3 ID : **6306804065795**
Option 4 ID : **6306804065792**
Status : **Answered**
Chosen Option : **C**

Q.22 **Which of the following valves is used to quickly shut off sections of a boiler system?**

Ans
- ✗ A. Gate valve
- ✗ B. Needle valve
- ✗ C. Check valve
- ✓ D. Ball valve

Question ID : **6306801010000**
Option 1 ID : **6306803963479**
Option 2 ID : **6306803963480**
Option 3 ID : **6306803963481**
Option 4 ID : **6306803963482**
Status : **Answered**
Chosen Option : **A**

Q.23 What kind of media is utilised to pressurise the boiler during a hydraulic test?

Ans
- ✗ A. Steam
- ✓ B. Water
- ✗ C. Compressed air
- ✗ D. Oil

Question ID : **6306801006749**
Option 1 ID : **6306803950735**
Option 2 ID : **6306803950736**
Option 3 ID : **6306803950734**
Option 4 ID : **6306803950737**
Status : **Answered**
Chosen Option : **B**

Q.24 The force a flowing fluid exerts on a body in the flow direction is called:

Ans
- ✗ A. pressure force
- ✗ B. surface tension force
- ✓ C. drag force
- ✗ D. elastic force

Question ID : **6306801010512**
Option 1 ID : **6306803965545**
Option 2 ID : **6306803965542**
Option 3 ID : **6306803965544**
Option 4 ID : **6306803965543**
Status : **Answered**
Chosen Option : **A**

Q.25 Which of the following file formats for workbooks in MS Excel is compatible with other types of spreadsheet software?

Ans
- ✓ A. .csv
- ✗ B. .pdf
- ✗ C. .xlsb
- ✗ D. .xlsx

Question ID : **630680782087**
Option 1 ID : **6306803065258**
Option 2 ID : **6306803065259**
Option 3 ID : **6306803065257**
Option 4 ID : **6306803065256**
Status : **Answered**
Chosen Option : **C**

Q.26 What is the primary purpose of conducting a hydraulic test on a boiler?

Ans
- ✗ A. To verify thermal performance
- ✗ B. To inspect safety valve operation
- ✓ C. To detect leaks and ensure pressure integrity
- ✗ D. To evaluate refractory condition

Question ID : **6306801003898**
Option 1 ID : **6306803939797**
Option 2 ID : **6306803939799**
Option 3 ID : **6306803939798**
Option 4 ID : **6306803939800**
Status : **Answered**
Chosen Option : **C**

Q.27 Under the Indian Boilers Act, 1923, the maximum period between successive inspections of a boiler is typically _____.

Ans
- ✗ A. two years
- ✓ B. one year
- ✗ C. five years
- ✗ D. six months

Question ID : **6306801004662**
Option 1 ID : **6306803942530**
Option 2 ID : **6306803942529**
Option 3 ID : **6306803942531**
Option 4 ID : **6306803942532**
Status : **Answered**
Chosen Option : **B**

Q.28 **Which of the following valves is a quick closing valve and stops the steam entry into the turbine immediately when it closes?**

Ans
- ✗ A. Safety valve
- ✗ B. Pressure regulating valve
- ✗ C. Governing valve
- ✓ D. Emergency stop valve

Question ID : **6306801010340**
Option 1 ID : **6306803964866**
Option 2 ID : **6306803964867**
Option 3 ID : **6306803964869**
Option 4 ID : **6306803964868**
Status : **Answered**
Chosen Option : **C**

Q.29 **In a reaction turbine, what is the primary function of the fixed blades attached to the casing?**

Ans
- ✗ A. To increase the pressure of the steam
- ✗ B. To decrease the velocity of the steam
- ✓ C. To guide the steam into the moving blades
- ✗ D. To produce a reaction force on the steam

Question ID : **6306801003386**
Option 1 ID : **6306803937683**
Option 2 ID : **6306803937684**
Option 3 ID : **6306803937682**
Option 4 ID : **6306803937681**
Status : **Answered**
Chosen Option : **D**

Q.30 **Which kind of boiler system has the highest likelihood of having an economiser installed for waste heat recovery?**

Ans
- ✓ A. High-pressure water-tube boiler
- ✗ B. Steam generator
- ✗ C. Small residential boiler
- ✗ D. Low-pressure fire-tube boiler

Question ID : **6306801004707**
Option 1 ID : **6306803942698**
Option 2 ID : **6306803942699**
Option 3 ID : **6306803942700**
Option 4 ID : **6306803942697**
Status : **Answered**
Chosen Option : **A**

Q.31 **Which of the following methods of external water treatment easily removes scale forming calcium and magnesium ions from the water by ion exchange process using resins?**

Ans
- ✗ A. Degasser
- ✗ B. Cation exchanger
- ✗ C. Demineralising
- ✓ D. Softener

Question ID : **6306801011122**
Option 1 ID : **6306803967936**
Option 2 ID : **6306803967935**
Option 3 ID : **6306803967934**
Option 4 ID : **6306803967933**
Status : **Answered**
Chosen Option : **C**

Q.32 **Which type of valve is used to control the flow rate in a pipeline that is typically operated by an external power source or pneumatic signal?**

Ans
- ✗ A. Regulation valve
- ✓ B. Control valve
- ✗ C. Isolation valve
- ✗ D. Check valve

Question ID : **6306801002356**
Option 1 ID : **6306803933538**
Option 2 ID : **6306803933539**
Option 3 ID : **6306803933537**
Option 4 ID : **6306803933540**
Status : **Answered**
Chosen Option : **B**

Q.33 **Which of the following devices removes the entrained water particles from the steam conveyed to the steam engine or turbine?**

Ans
- ✗ A. Superheater
- ✓ B. Steam separator
- ✗ C. Air heater
- ✗ D. Economiser

Question ID : **6306801011072**
Option 1 ID : **6306803967737**
Option 2 ID : **6306803967740**
Option 3 ID : **6306803967738**
Option 4 ID : **6306803967739**
Status : **Answered**
Chosen Option : **A**

Q.34 **What is the primary function of a Programmable Logic Controller (PLC) in power plant automation?**

Ans
- ✓ A. To continuously measure process inputs and generate output signals
- ✗ B. To replace the need for human operators in all power plant processes
- ✗ C. To store large amounts of data for processing
- ✗ D. To serve as a memory storage device similar to RAM and ROM

Question ID : **6306801004329**
Option 1 ID : **6306803941222**
Option 2 ID : **6306803941223**
Option 3 ID : **6306803941221**
Option 4 ID : **6306803941224**
Status : **Answered**
Chosen Option : **B**

Q.35 **Which of the following components is opened after draining the water and isolating the other connected pipeline valves during the inspection of a boiler?**

Ans
- ✗ A. Hand hole cap of water header
- ✗ B. Economiser
- ✓ C. Steam drum manhole
- ✗ D. Superheater

Question ID : **6306801008781**
Option 1 ID : **6306803958646**
Option 2 ID : **6306803958649**
Option 3 ID : **6306803958647**
Option 4 ID : **6306803958648**
Status : **Answered**
Chosen Option : **C**

Q.36 **A venturi meter is inserted in a vertical pipe carrying water, flowing in the upward direction. A differential mercury manometer connected to the inlet and throat gives a reading of 20 cm. What will be the differential pressure head? Take specific gravity of mercury = 13.5.**

Ans
- ✓ A. 250 cm of water
- ✗ B. 100 cm of water
- ✗ C. 200 cm of water
- ✗ D. 150 cm of water

Question ID : **6306801010538**
Option 1 ID : **6306803965637**
Option 2 ID : **6306803965634**
Option 3 ID : **6306803965636**
Option 4 ID : **6306803965635**
Status : **Answered**
Chosen Option : **B**

Q.37 **Which of the following characteristics of a computer system refers to its ability to process multiple tasks concurrently by rapidly switching between them?**

Ans
- ✗ A. Distributed computing
- ✗ B. Real-time processing
- ✗ C. Parallel processing
- ✓ D. Multitasking

Question ID : **630680806832**
Option 1 ID : **6306803160954**
Option 2 ID : **6306803160956**
Option 3 ID : **6306803160953**
Option 4 ID : **6306803160955**
Status : **Answered**
Chosen Option : **D**

Q.38 Which of the following influences an economiser's performance in waste heat recovery the most?

Ans
- ✔ A. The temperature difference between the flue gases and the feedwater
- ✘ B. The size of the economiser
- ✘ C. The type of fuel used in the boiler
- ✘ D. The ambient air temperature

Question ID : **6306801004716**
Option 1 ID : **6306803942734**
Option 2 ID : **6306803942733**
Option 3 ID : **6306803942735**
Option 4 ID : **6306803942736**
Status : **Answered**
Chosen Option : **B**

Q.39 What is the minimum airflow required for purging a furnace to prevent the accumulation of explosive mixture before starting a boiler?

Ans
- ✘ A. 20% for 5-10 minutes
- ✔ B. 30% for 5-10 minutes
- ✘ C. 40% for 10-15 minutes
- ✘ D. 10% for 2-5 minutes

Question ID : **6306801003405**
Option 1 ID : **6306803937778**
Option 2 ID : **6306803937779**
Option 3 ID : **6306803937780**
Option 4 ID : **6306803937777**
Status : **Answered**
Chosen Option : **C**

Q.40 Where is a mud drum placed in a boiler?

Ans
- ✔ A. In the bottom portion
- ✘ B. In the middle portion
- ✘ C. In the corner
- ✘ D. In the upper portion

Question ID : **6306801004468**
Option 1 ID : **6306803941775**
Option 2 ID : **6306803941774**
Option 3 ID : **6306803941776**
Option 4 ID : **6306803941773**
Status : **Answered**
Chosen Option : **B**

Q.41 From the steam table, one can obtain the values of various properties of:

Ans
- ✘ A. superheated steam only
- ✘ B. saturated water only
- ✘ C. steam only
- ✔ D. saturated water and steam as well as for the superheated steam

Question ID : **6306801011099**
Option 1 ID : **6306803967843**
Option 2 ID : **6306803967841**
Option 3 ID : **6306803967842**
Option 4 ID : **6306803967844**
Status : **Answered**
Chosen Option : **B**

Q.42 Which type of fire is caused by flammable liquids, such as gasoline and oil, and should never be extinguished with water?

Ans
- ✘ A. Class C
- ✘ B. Class K
- ✘ C. Class A
- ✔ D. Class B

Question ID : **6306801004371**
Option 1 ID : **6306803941391**
Option 2 ID : **6306803941392**
Option 3 ID : **6306803941389**
Option 4 ID : **6306803941390**
Status : **Answered**
Chosen Option : **B**

Q.43 Steaming Economiser is the one where the rise in feedwater temperature is greater than:

Ans
- ✗ A. 57% of the difference between the feedwater inlet and saturation temperature
- ✗ B. 43% of the difference between the feedwater inlet and saturation temperature
- ✓ C. 67% of the difference between the feedwater inlet and saturation temperature
- ✗ D. 33% of the difference between the feedwater inlet and saturation temperature

Question ID : **6306801008663**
Option 1 ID : **6306803958173**
Option 2 ID : **6306803958172**
Option 3 ID : **6306803958170**
Option 4 ID : **6306803958171**
Status : **Answered**
Chosen Option : **C**

Q.44 What safety measure must be taken first before igniting a boiler?

Ans
- ✗ A. Ensure the fuel supply is adequate
- ✗ B. Check the water level
- ✓ C. Inspect the boiler for any visible leaks or damage
- ✗ D. Open all safety valves

Question ID : **6306801010878**
Option 1 ID : **6306803966975**
Option 2 ID : **6306803966974**
Option 3 ID : **6306803966976**
Option 4 ID : **6306803966973**
Status : **Answered**
Chosen Option : **D**

Q.45 Which of the following Sections of the Boiler Code provides requirement for all methods of electric boilers?

Ans
- ✗ A. Non-destructive examination
- ✓ B. Power boilers
- ✗ C. Heating boilers
- ✗ D. Materials

Question ID : **6306801008653**
Option 1 ID : **6306803958133**
Option 2 ID : **6306803958130**
Option 3 ID : **6306803958132**
Option 4 ID : **6306803958131**
Status : **Answered**
Chosen Option : **C**

Q.46 The maximum flow that is obtained from a centrifugal pump without damaging the pump is called:

Ans
- ✗ A. stage
- ✗ B. gland
- ✓ C. pump run out
- ✗ D. shutoff head

Question ID : **6306801010351**
Option 1 ID : **6306803964909**
Option 2 ID : **6306803964908**
Option 3 ID : **6306803964906**
Option 4 ID : **6306803964907**
Status : **Answered**
Chosen Option : **D**

Q.47 In a scenario where an economiser is not functioning correctly, what is the immediate action to be taken?

Ans
- ✓ A. Open the economiser bypass valve.
- ✗ B. Increase the firing rate of the boiler.
- ✗ C. Stop the feedwater pump.
- ✗ D. Increase the water level in the boiler.

Question ID : **6306801006549**
Option 1 ID : **6306803949947**
Option 2 ID : **6306803949946**
Option 3 ID : **6306803949948**
Option 4 ID : **6306803949949**
Status : **Answered**
Chosen Option : **D**

Q.48 The economiser heating surface is around:

Ans
- ✗ A. 200% to 250% of the boiler heating surface
- ✗ B. 125% to 150% of the boiler heating surface
- ✗ C. 80% to 90% of the boiler heating surface
- ✓ D. 25% to 40% of the boiler heating surface

Question ID : **6306801008717**
Option 1 ID : **6306803958385**
Option 2 ID : **6306803958384**
Option 3 ID : **6306803958383**
Option 4 ID : **6306803958382**
Status : **Answered**
Chosen Option : **B**

Q.49 In which of the following mechanical gauges is the tube filled with a liquid that is in contact with the fluid in pipe or vessel across a diaphragm?

Ans
- ✗ A. Diaphragm
- ✗ B. Dead weight
- ✗ C. Bellow
- ✓ D. Bourdon tube

Question ID : **6306801010451**
Option 1 ID : **6306803965302**
Option 2 ID : **6306803965304**
Option 3 ID : **6306803965305**
Option 4 ID : **6306803965303**
Status : **Answered**
Chosen Option : **B**

Q.50 Which kind of fire extinguisher is inappropriate for use in boiler rooms during electrical fires?

Ans
- ✗ A. Dry powder
- ✗ B. Foam
- ✗ C. CO_2
- ✓ D. Water

Question ID : **6306801010862**
Option 1 ID : **6306803966909**
Option 2 ID : **6306803966911**
Option 3 ID : **6306803966910**
Option 4 ID : **6306803966912**
Status : **Answered**
Chosen Option : **D**

Q.51 Which type of fitting is used to connect two pipes of different sizes in a boiler plant piping system?

Ans
- ✗ A. Coupling fitting
- ✗ B. Union fitting
- ✗ C. Elbow fitting
- ✓ D. Reducer fitting

Question ID : **6306801002334**
Option 1 ID : **6306803933434**
Option 2 ID : **6306803933433**
Option 3 ID : **6306803933436**
Option 4 ID : **6306803933435**
Status : **Answered**
Chosen Option : **C**

Q.52 In a cooling tower, the difference between the wet bulb temperature and the outgoing cooling water temperature is known as _____.

Ans
- ✗ A. evaporation rate
- ✗ B. heat transfer coefficient
- ✓ C. cooling tower approach
- ✗ D. cooling tower range

Question ID : **630680996620**
Option 1 ID : **6306803910214**
Option 2 ID : **6306803910215**
Option 3 ID : **6306803910213**
Option 4 ID : **6306803910212**
Status : **Answered**
Chosen Option : **B**

Q.53 If the dryness fraction of steam is 0.75, then the wetness fraction of steam will be:

Ans
- ✗ A. 0.75
- ✓ B. 0.25
- ✗ C. 0.88
- ✗ D. 1.75

Question ID : **6306801008771**
Option 1 ID : **6306803958609**
Option 2 ID : **6306803958607**
Option 3 ID : **6306803958608**
Option 4 ID : **6306803958606**
Status : **Answered**
Chosen Option : **C**

Q.54 Which of the following steps is NOT correct for normalising the high-water level in a boiler drum?

Ans
- ✗ A. Try to increase the drum pressure
- ✗ B. Open the blow down valve
- ✗ C. Control feedwater flow manually
- ✓ D. Increase the steaming rate

Question ID : **6306801008813**
Option 1 ID : **6306803958776**
Option 2 ID : **6306803958777**
Option 3 ID : **6306803958774**
Option 4 ID : **6306803958775**
Status : **Answered**
Chosen Option : **C**

Q.55 Which of the following methods is NOT adopted to control the flow of an ID fan?

Ans
- ✗ A. Variable frequency drive (VFD)
- ✓ B. Uniform speed hydraulic coupling
- ✗ C. Damper control
- ✗ D. Two-speed electric motor

Question ID : **6306801010459**
Option 1 ID : **6306803965332**
Option 2 ID : **6306803965330**
Option 3 ID : **6306803965331**
Option 4 ID : **6306803965333**
Status : **Answered**
Chosen Option : **B**

Q.56 During feedwater fill-up in the boiler, after the economiser is filled up with feedwater, water enters into the:

Ans
- ✗ A. evaporator
- ✗ B. water wall
- ✓ C. boiler drum
- ✗ D. preheater

Question ID : **6306801008670**
Option 1 ID : **6306803958198**
Option 2 ID : **6306803958200**
Option 3 ID : **6306803958199**
Option 4 ID : **6306803958201**
Status : **Answered**
Chosen Option : **C**

Q.57 Which type of condenser is most commonly used in large power plants?

Ans
- ✗ A. Evaporative condenser
- ✗ B. Jet condenser
- ✓ C. Surface condenser
- ✗ D. Air cooled condenser

Question ID : **6306801007091**
Option 1 ID : **6306803952090**
Option 2 ID : **6306803952091**
Option 3 ID : **6306803952089**
Option 4 ID : **6306803952088**
Status : **Answered**
Chosen Option : **B**

Q.58 What is the principle of operation of a bimetallic temperature gauge?

Ans
- ✗ A. Difference in melting point of dissimilar metals
- ✗ B. Viscosity change of a fluid with temperature
- ✗ C. Electrical resistance change in a metal alloy
- ✓ D. Mechanical deformation of a composite metal strip

Question ID : **6306809966556**
Option 1 ID : **6306803910356**
Option 2 ID : **6306803910359**
Option 3 ID : **6306803910357**
Option 4 ID : **6306803910358**
Status : **Answered**
Chosen Option : **D**

Q.59 What does a dark emission in the stack indicate, and how can it be corrected?

Ans
- ✗ A. Incomplete combustion; reduce air supply
- ✓ B. Incomplete combustion; optimise fuel mix
- ✗ C. Excess fuel; increase air flow rate
- ✗ D. Complete combustion; no adjustment needed

Question ID : **6306801003767**
Option 1 ID : **6306803939254**
Option 2 ID : **6306803939255**
Option 3 ID : **6306803939256**
Option 4 ID : **6306803939253**
Status : **Answered**
Chosen Option : **D**

Q.60 A boiler system generates 100 tons of steam per hour at a pressure of 20 bar. The feedwater enters the economiser at a temperature of 100°C and exits at 150°C. The specific heat capacity of water is 4.18 kJ/kg°C. The amount of heat recovered by the economiser per hour is:

Ans
- ✗ A. 15,900,000 KJ/hr
- ✗ B. 10,900,000 KJ/hr
- ✓ C. 20,900,000 KJ/hr
- ✗ D. 12,900,000 KJ/hr

Question ID : **6306801003846**
Option 1 ID : **6306803939595**
Option 2 ID : **6306803939593**
Option 3 ID : **6306803939596**
Option 4 ID : **6306803939594**
Status : **Answered**
Chosen Option : **C**

Q.61 The theoretical temperature at which all the molecular motions stop and substances possess no thermal energy, is called:

Ans
- ✗ A. steam point
- ✓ B. absolute zero temperature
- ✗ C. ice point
- ✗ D. triple point

Question ID : **6306801010470**
Option 1 ID : **6306803965375**
Option 2 ID : **6306803965377**
Option 3 ID : **6306803965374**
Option 4 ID : **6306803965376**
Status : **Answered**
Chosen Option : **B**

Q.62 How will the utilisation of preheated air for the combustion process be helpful to reduce smoke emission in the boiler system?

Ans
- ✗ A. By cooling down the fuel before burning
- ✗ B. By increasing the temperature of the flue gases
- ✓ C. By enhancing the combustion process and reducing incomplete combustion
- ✗ D. By decreasing the efficiency of the burner

Question ID : **6306801009936**
Option 1 ID : **6306803963229**
Option 2 ID : **6306803963227**
Option 3 ID : **6306803963230**
Option 4 ID : **6306803963228**
Status : **Answered**
Chosen Option : **C**

Q.63 **A high-pressure steam boiler plant experiences an unexpected increase in makeup water usage. What is the most appropriate immediate action to take regarding water analysis?**

Ans

✔ A. Analyse the water immediately to identify potential changes in water quality

✘ B. Continue with the existing water analysis schedule

✘ C. Reduce the frequency of water analysis to monthly

✘ D. Suspend water analysis until the makeup water usage returns to normal

Question ID : **630680996355**
Option 1 ID : **6306803909154**
Option 2 ID : **6306803909153**
Option 3 ID : **6306803909152**
Option 4 ID : **6306803909155**
Status : **Answered**
Chosen Option : **C**

Q.64 **What is the typical method used to perform intermittent blowdown?**

Ans

✘ A. Automatic pressure relief

✘ B. Continuous removal of water

✔ C. Manually removing water at intervals

✘ D. Relieving steam through a valve

Question ID : **6306801006929**
Option 1 ID : **6306803951452**
Option 2 ID : **6306803951450**
Option 3 ID : **6306803951451**
Option 4 ID : **6306803951453**
Status : **Answered**
Chosen Option : **C**

Q.65 **Which of the following statements is/are correct about overcurrent relays in generator protection?**

Statement 1: Instantaneous overcurrent relays operate without intentional time delay for high fault currents.
Statement 2: Time lag overcurrent relays are designed to operate instantly for low fault currents.
Statement 3: The pickup value of the instantaneous overcurrent relay is always lower than the time lag overcurrent relay.
Statement 4: Overcurrent relays are used to protect the generator from under voltage conditions.

Ans

✔ A. Only Statement 1 is correct.

✘ B. Statements 2 and 4 are correct.

✘ C. Statements 3 and 4 are correct.

✘ D. Statements 1 and 3 are correct.

Question ID : **6306801004317**
Option 1 ID : **6306803941173**
Option 2 ID : **6306803941175**
Option 3 ID : **6306803941176**
Option 4 ID : **6306803941174**
Status : **Answered**
Chosen Option : **B**

Q.66 **A boiler uses a shell-and-tube heat exchanger with a heat transfer area of 50 m^2 and a heat transfer coefficient of 130 $W/m^2 \cdot K$. If the temperature difference between the hot and cold fluids is 40°C, what is the rate of heat transfer through the heat exchanger?**

Ans

✘ A. 240 KW

✘ B. 520 KW

✘ C. 480 KW

✔ D. 260 KW

Question ID : **6306801009981**
Option 1 ID : **6306803963404**
Option 2 ID : **6306803963406**
Option 3 ID : **6306803963405**
Option 4 ID : **6306803963403**
Status : **Answered**
Chosen Option : **C**

Q.67 **In congruent phosphate treatment, the ratio of sodium to phosphate ions (Na/PO_4) is maintained from:**

Ans
✗ A. 0.3 : 1 to 0.9 : 1
✓ B. 2.3 : 1 to 2.6 : 1
✗ C. 1 : 1 to 1 : 1.5
✗ D. 3.5 : 1 to 5 : 1

Question ID : **6306801011149**
Option 1 ID : **6306803968037**
Option 2 ID : **6306803968036**
Option 3 ID : **6306803968038**
Option 4 ID : **6306803968039**
Status : **Answered**
Chosen Option : **C**

Q.68 **Where should automatic air vents for steam systems be fitted to ensure effective removal of air?**

Ans
✗ A. In a central location, to vent air from the entire system
✓ B. Above the condensate level, at the end of the steam mains
✗ C. Below the condensate level, to capture steam and air
✗ D. At the start of the steam mains, before steam enters

Question ID : **6306801003443**
Option 1 ID : **6306803937960**
Option 2 ID : **6306803937959**
Option 3 ID : **6306803937958**
Option 4 ID : **6306803937957**
Status : **Answered**
Chosen Option : **C**

Q.69 **The difference between the temperature of cold water leaving the cooling tower and the wet bulb temperature of atmospheric air is known as:**

Ans
✗ A. drift
✗ B. fill
✓ C. approach
✗ D. cooling range

Question ID : **6306801010556**
Option 1 ID : **6306803965707**
Option 2 ID : **6306803965708**
Option 3 ID : **6306803965706**
Option 4 ID : **6306803965705**
Status : **Answered**
Chosen Option : **A**

Q.70 **Given an RTD (Resistance Temperature Device) with a resistance of R0 = 100 Ω at 0°C and a temperature coefficient of resistance α = 0.004/°C, which of the following equations correctly represents the resistance R of the RTD at a temperature T?**

Ans
✗ A. R = 100 + 0.004T
✓ B. R = 100(1 + 0.004T)
✗ C. R = 100(1 + 0.04T)
✗ D. R = 100(1 − 0.004T)

Question ID : **630680996642**
Option 1 ID : **6306803910300**
Option 2 ID : **6306803910301**
Option 3 ID : **6306803910302**
Option 4 ID : **6306803910303**
Status : **Answered**
Chosen Option : **B**

Q.71 **Which of the following equations gives the relation among flow rate, pressure and area of fluid flow?**

Ans
✗ A. Buoyancy equation
✗ B. Froude equation
✓ C. Hagen-Poiseuille equation
✗ D. Continuity equation

Question ID : **6306801010531**
Option 1 ID : **6306803965607**
Option 2 ID : **6306803965609**
Option 3 ID : **6306803965608**
Option 4 ID : **6306803965606**
Status : **Answered**
Chosen Option : **D**

Q.72 Which of the following features of MS Word CANNOT be changed using the Font dialog box?

Ans
✗ A. Font size
✓ B. Line spacing
✗ C. Font style
✗ D. Font color

Question ID : **6306801046245**
Option 1 ID : **6306804107073**
Option 2 ID : **6306804107075**
Option 3 ID : **6306804107076**
Option 4 ID : **6306804107074**
Status : **Answered**
Chosen Option : **B**

Q.73 What is the primary purpose of a boiler feedwater pump in a thermal power plant?

Ans
✓ A. To provide a constant and controlled flow of water to the boiler
✗ B. To circulate cooling water through the condenser and heat exchangers
✗ C. To inject chemicals and treatments into the boiler feedwater system
✗ D. To regulate steam pressure and flow rate entering the turbine

Question ID : **6306801004418**
Option 1 ID : **6306803941579**
Option 2 ID : **6306803941578**
Option 3 ID : **6306803941580**
Option 4 ID : **6306803941577**
Status : **Answered**
Chosen Option : **D**

Q.74 What should be done right away if a boiler exhibits signs of a water shortage?

Ans
✗ A. Open the safety valve to release steam
✗ B. Add cold water to the boiler quickly
✗ C. Increase the fuel supply to maintain pressure
✓ D. Shut down the boiler immediately

Question ID : **6306801009881**
Option 1 ID : **6306803963009**
Option 2 ID : **6306803963010**
Option 3 ID : **6306803963007**
Option 4 ID : **6306803963008**
Status : **Answered**
Chosen Option : **C**

Q.75 In a spray condenser, why is high-purity water required for cooling?

Ans
✗ A. To prevent corrosion of the condenser shell
✗ B. To prevent thermal shock in the turbine exhaust
✗ C. To prevent scaling and fouling of the cooling tower
✓ D. To prevent contamination of the feedwater supply

Question ID : **6306801002364**
Option 1 ID : **6306803933577**
Option 2 ID : **6306803933580**
Option 3 ID : **6306803933578**
Option 4 ID : **6306803933579**
Status : **Answered**
Chosen Option : **A**

Section : **Numerical Ability**

Q.76 यदि $(x-2), (x^2+3kx-8k)$ का एक गुणनखंड है, तो k का मान क्या है?

Ans
✗ A. 1
✗ B. 3
✗ C. 4
✓ D. 2

Question ID : **630680218070**
Option 1 ID : **630680846187**
Option 2 ID : **630680846189**
Option 3 ID : **630680846190**
Option 4 ID : **630680846188**
Status : **Answered**
Chosen Option : **D**

Q.77 वार्षिक साधारण ब्याज की समान दर पर चेतन ₹5400 की राशि का निवेश करता है और विपुल ₹10200 की राशि का निवेश करता है। यदि 5 वर्ष के अंत में, विपुल को चेतन से ₹960 अधिक ब्याज मिलता है, तो वार्षिक ब्याज की दर (प्रतिशत में) ज्ञात कीजिए।

Ans
✗ A. 3
✗ B. 2
✓ C. 4
✗ D. 6

Question ID : **630680613596**
Option 1 ID : **6306802401119**
Option 2 ID : **6306802401117**
Option 3 ID : **6306802401116**
Option 4 ID : **6306802401118**
Status : **Answered**
Chosen Option : **C**

Q.78 428 और 433 के बीच स्थित अभाज्य संख्याओं की संख्या क्या है?

Ans
✓ A. 2
✗ B. 7
✗ C. 4
✗ D. 3

Question ID : **630680740967**
Option 1 ID : **6306802904456**
Option 2 ID : **6306802904459**
Option 3 ID : **6306802904457**
Option 4 ID : **6306802904458**
Status : **Answered**
Chosen Option : **A**

Q.79 ₹12975 को S, B और C के बीच इस प्रकार बांटा गया है कि यदि उनके हिस्सों से क्रमशः ₹62, ₹18 और ₹15 की कटौती कर ली जाए, तो उनके पास 2 : 3 : 11 के अनुपात में धनराशि बचती है। S का हिस्सा ज्ञात कीजिए।

Ans
✓ A. ₹1610
✗ B. ₹1560
✗ C. ₹1710
✗ D. ₹1760

Question ID : **6306801063176**
Option 1 ID : **6306804175063**
Option 2 ID : **6306804175065**
Option 3 ID : **6306804175064**
Option 4 ID : **6306804175066**
Status : **Answered**
Chosen Option : **C**

Q.80 एक शिविर में 54 व्यक्तियों के लिए 15 दिनों का राशन है। यदि शिविर में व्यक्तियों की संख्या बढ़ाकर 90 कर दी जाए, तो वही राशन कितने दिनों में समाप्त हो जाएगा?

Ans
✗ A. 12
✓ B. 9
✗ C. 7
✗ D. 8

Question ID : **6306801063165**
Option 1 ID : **6306804175022**
Option 2 ID : **6306804175019**
Option 3 ID : **6306804175021**
Option 4 ID : **6306804175020**
Status : **Answered**
Chosen Option : **B**

Q.81 एक नाविक 40 km दूर एक स्थान तक नाव चलाकर 20 घंटे में वापस आता है। उसने पाया कि वह जितने समय में धारा की दिशा में 10 km तक नाव चला सकता है, उतने ही समय में धारा की विपरीत दिशा में 4 km तक नाव चला सकता है। धारा की चाल (km/h में) ज्ञात कीजिए।

Ans
✗ A. 2.3
✗ B. 3.6
✓ C. 2.1
✗ D. 3.2

Question ID : **630680609395**
Option 1 ID : **6306802386298**
Option 2 ID : **6306802386300**
Option 3 ID : **6306802386297**
Option 4 ID : **6306802386299**
Status : **Answered**
Chosen Option : **A**

Q.82 यदि ₹28700 को 8% वार्षिक ब्याज दर से 2 वर्षों के लिए जमा किया जाता है, तो चक्रवृद्धि ब्याज (वार्षिक रूप से चक्रवृद्धित होने वाला), और साधारण ब्याज के बीच अंतर कितना है?

Ans
✗ A. ₹185.92
✗ B. ₹176
✗ C. ₹193.9
✓ D. ₹183.68

Question ID : **630680855831**
Option 1 ID : **6306803352027**
Option 2 ID : **6306803352029**
Option 3 ID : **6306803352028**
Option 4 ID : **6306803352026**
Status : **Answered**
Chosen Option : **A**

Q.83 समानुपात समीकरण (proportion equation) 57 : 15 :: 19 : x में x का मान ज्ञात कीजिए।

Ans
✗ A. 2
✗ B. 7
✗ C. 4
✓ D. 5

Question ID : **630680850426**
Option 1 ID : **6306803330863**
Option 2 ID : **6306803330864**
Option 3 ID : **6306803330862**
Option 4 ID : **6306803330861**
Status : **Answered**
Chosen Option : **D**

Q.84 प्रथम 89 विषम प्राकृत संख्याओं का औसत कितना है?

Ans
✗ A. 90
✗ B. 88
✓ C. 89
✗ D. 44.5

Question ID : **630680551963**
Option 1 ID : **6306802158078**
Option 2 ID : **6306802158079**
Option 3 ID : **6306802158077**
Option 4 ID : **6306802158080**
Status : **Answered**
Chosen Option : **D**

Q.85 एक आयत की लंबाई 6% बढ़ाई जाती है और चौड़ाई 7% घटाई जाती है। आयत के क्षेत्रफल में कितना परिवर्तन हुआ?

Ans
✓ A. 1.42% की कमी
✗ B. 0.42% की वृद्धि
✗ C. 0.24% की वृद्धि
✗ D. 1.24% की कमी

Question ID : **630680636457**
Option 1 ID : **6306802491565**
Option 2 ID : **6306802491562**
Option 3 ID : **6306802491563**
Option 4 ID : **6306802491564**
Status : **Answered**
Chosen Option : **A**

Q.86 एक वस्तु की सूची-कीमत ₹2000 है और सूची-कीमत पर 10% की छूट प्रदान की जाती है। नेट विक्रय मूल्य को ₹828 तक लाने के लिए ग्राहक को पहले से ही बट्टागत कीमत पर कितने प्रतिशत अतिरिक्त छूट प्रदान की जानी चाहिए?

Ans
✗ A. 56
✗ B. 57
✗ C. 50
✓ D. 54

Question ID : **630680802611**
Option 1 ID : **6306803144603**
Option 2 ID : **6306803144601**
Option 3 ID : **6306803144602**
Option 4 ID : **6306803144600**
Status : **Answered**
Chosen Option : **D**

Q.87 एक ठोस घनाभ के तीन आसन्न फलकों का क्षेत्रफल 96 cm^2, 24 cm^2 और 144 cm^2 है। घनाभ का आयतन (cm^3 में) ज्ञात कीजिए।

Ans
✗ A. 727
✗ B. 631
✗ C. 506
✓ D. 576

Question ID : **630680837036**
Option 1 ID : **6306803278874**
Option 2 ID : **6306803278873**
Option 3 ID : **6306803278872**
Option 4 ID : **6306803278871**
Status : **Answered**
Chosen Option : **C**

Q.88 अमित ने एक पंखा 15% के लाभ पर बेचा। यदि क्रय मूल्य 8% अधिक होता और विक्रय मूल्य ₹419 अधिक होता, तो 22% का लाभ होता। 20% का लाभ अर्जित करने के लिए अमित को पंखा किस मूल्य पर बेचना चाहिए?

Ans
✗ A. ₹2,500
✗ B. ₹2,640
✓ C. ₹3,000
✗ D. ₹2,850

Question ID : **630680615288**
Option 1 ID : **6306802407826**
Option 2 ID : **6306802407827**
Option 3 ID : **6306802407829**
Option 4 ID : **6306802407828**
Status : **Answered**
Chosen Option : **B**

Q.89 एक कार का ओडोमीटर, यात्रा की शुरुआत में 12100 km और यात्रा की अंत में 12460 km प्रदर्शित करता है। यदि यात्रा में 4 घंटे लगे, तो कार की औसत चाल m/sec में ज्ञात कीजिए।

Ans
✓ A. 25
✗ B. 30
✗ C. 33
✗ D. 20

Question ID : **6306801063187**
Option 1 ID : **6306804175107**
Option 2 ID : **6306804175109**
Option 3 ID : **6306804175110**
Option 4 ID : **6306804175108**
Status : **Answered**
Chosen Option : **A**

Q.90 दो मित्रों, अजय और अमित, की मासिक आय क्रमशः 5:7 के अनुपात में है और इनमें से प्रत्येक ₹99000 प्रति माह बचाता है। यदि इनके मासिक व्यय का अनुपात 2:3 है, तो अजय की मासिक आय (₹ में) ज्ञात करें।

Ans
✗ A. 494000
✗ B. 496000
✓ C. 495000
✗ D. 693000

Question ID : **630680591846**
Option 1 ID : **6306802315853**
Option 2 ID : **6306802315852**
Option 3 ID : **6306802315851**
Option 4 ID : **6306802315854**
Status : **Answered**
Chosen Option : **B**

Section : **General Awareness**

Q.91 मनुष्यों में X या Y गुणसूत्र की वंशागति के संबंध में, निम्नलिखित कथनों पर विचार कीजिए और सही विकल्प का चयन कीजिए।

A. पुरुषों और महिलाओं दोनों में एक X और एक Y गुणसूत्र होता है।
B. बच्चे का लिंग, पिता द्वारा निर्धारित होता है, जिसमें X या Y गुणसूत्र में से कोई एक गुणसूत्र प्राप्त हो सकता है।

Ans
✗ A. न तो A और न ही B सही है।
✗ B. केवल A सही है।
✓ C. केवल B सही है।
✗ D. A और B दोनों सही हैं।

Question ID : **630680942446**
Option 1 ID : **6306803694266**
Option 2 ID : **6306803694263**
Option 3 ID : **6306803694264**
Option 4 ID : **6306803694265**
Status : **Answered**
Chosen Option : **C**

Q.92 भारतीय संविधान में निम्नलिखित में से किस संशोधन द्वारा सिंधी को आधिकारिक भाषा के रूप में शामिल किया गया था?

Ans
✓ A. 21वें संशोधन
✗ B. 42वें संशोधन
✗ C. 18वें संशोधन
✗ D. 31वें संशोधन

Question ID : **630680962244**
Option 1 ID : **6306803773262**
Option 2 ID : **6306803773264**
Option 3 ID : **6306803773261**
Option 4 ID : **6306803773263**
Status : **Answered**
Chosen Option : **A**

Q.93 _____ सतह से हवा में मार करने वाली मिसाइल (SAM), एक कम दूरी की सतह से हवा में मार करने वाली मिसाइल प्रणाली है, जो सुभेद्य क्षेत्रों और सुभेद्य बिंदुओं की हवाई हमलों से रक्षा करती है, जिसे जुलाई 2024 में DRDO द्वारा विकसित किया गया है।

Ans
✗ A. अर्जुन
✗ B. रुद्रम
✓ C. आकाश
✗ D. शिवालिक

Question ID : **630680946297**
Option 1 ID : **6306803709911**
Option 2 ID : **6306803709910**
Option 3 ID : **6306803709912**
Option 4 ID : **6306803709909**
Status : **Answered**
Chosen Option : **B**

Q.94 'यंग इंडिया (Young India)' समाचार पत्र के संस्थापक निम्नलिखित में से कौन थे?

Ans
✓ A. महात्मा गांधी
✗ B. सुभाष चंद्र बोस
✗ C. जवाहरलाल नेहरू
✗ D. बाल गंगाधर तिलक

Question ID : **630680962213**
Option 1 ID : **6306803773116**
Option 2 ID : **6306803773113**
Option 3 ID : **6306803773115**
Option 4 ID : **6306803773114**
Status : **Answered**
Chosen Option : **B**

Q.95 भारतीय संविधान में मौलिक कर्तव्यों को किस संशोधन द्वारा शामिल किया गया?

Ans
✗ A. 61वें संशोधन
✗ B. 40वें संशोधन
✓ C. 42वें संशोधन
✗ D. 52वें संशोधन

Question ID : **630680942529**
Option 1 ID : **6306803694561**
Option 2 ID : **6306803694558**
Option 3 ID : **6306803694559**
Option 4 ID : **6306803694560**
Status : **Answered**
Chosen Option : **C**

Q.96 _____, 'द ग्रेट इंडियन क्रिकेट सर्कस' पुस्तक के लेखक हैं।

Ans
✗ A. अभिषेक मुखर्जी और अनिंद्य दत्ता
✗ B. जॉय भट्टाचार्य और सुरेश सावंत
✗ C. अनिंद्य दत्ता और सुरेश सावंत
✓ D. जॉय भट्टाचार्य और अभिषेक मुखर्जी

Question ID : **630680946553**
Option 1 ID : **6306803710931**
Option 2 ID : **6306803710929**
Option 3 ID : **6306803710932**
Option 4 ID : **6306803710930**
Status : **Answered**
Chosen Option : **A**

Q.97 भारत की जनगणना 2011 के अनुसार, निम्नलिखित में से किस राज्य में सबसे कम महिला साक्षरता दर दर्ज की गई?

Ans
✗ A. आंध्र प्रदेश
✗ B. झारखंड
✗ C. ओडिशा
✓ D. बिहार

Question ID : **630680929738**
Option 1 ID : **6306803643769**
Option 2 ID : **6306803643770**
Option 3 ID : **6306803643768**
Option 4 ID : **6306803643767**
Status : **Answered**
Chosen Option : **D**

Q.98 भारतीय संविधान का कौन-सा अनुच्छेद किसी राज्य की कार्यपालक शक्ति की सीमा से संबंधित है?

Ans
✓ A. अनुच्छेद 162
✗ B. अनुच्छेद 167
✗ C. अनुच्छेद 155
✗ D. अनुच्छेद 159

Question ID : **630680942595**
Option 1 ID : **6306803694820**
Option 2 ID : **6306803694821**
Option 3 ID : **6306803694818**
Option 4 ID : **6306803694819**
Status : **Answered**
Chosen Option : **C**

Q.99 फरवरी 2024 में, निम्नलिखित में से किस केंद्रीय मंत्री द्वारा 'आत्मनिर्भर तिलहन अभियान' की घोषणा की गई?

Ans
✗ A. अमित शाह
✓ B. निर्मला सीतारमण
✗ C. नितिन जयराम गडकरी
✗ D. राजनाथ सिंह

Question ID : **630680943317**
Option 1 ID : **6306803697648**
Option 2 ID : **6306803697647**
Option 3 ID : **6306803697646**
Option 4 ID : **6306803697645**
Status : **Answered**
Chosen Option : **A**

Q.100 भारत के प्रायद्वीपीय पठार के पश्चिम में कौन-सा सागर है?

Ans
✗ A. कैरेबियन सागर
✓ B. अरब सागर
✗ C. अंडमान सागर
✗ D. बंगाल की खाड़ी

Question ID : **630680943333**
Option 1 ID : **6306803697703**
Option 2 ID : **6306803697702**
Option 3 ID : **6306803697701**
Option 4 ID : **6306803697704**
Status : **Answered**
Chosen Option : **B**