



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 Production

Section : Subject Knowledge

Q.1 What is one advantage of the hydrofluoric acid (HF) alkylation process compared to the sulphuric acid (H₂SO₄) alkylation process?

- Ans
- A. Higher isobutane/olefin ratio
 - B. Lower operating temperature
 - C. Longer residence time in the reactor
 - D. Simpler reactor design due to high solubility of isobutane in HF

Question ID : 6306801102592
 Option 1 ID : 6306804331445
 Option 2 ID : 6306804331444
 Option 3 ID : 6306804331447
 Option 4 ID : 6306804331446
 Status : Marked For Review
 Chosen Option : D

Q.2 In industrial settings, the Proportional-Integral-Derivative (PID) controller is often referred to by which of the following terms?

- Ans
- A. Proportional-integral-derivative controller
 - B. Integral-derivative controller
 - C. Proportional-control system
 - D. Proportional-plus-reset-plus-rate controller

Question ID : 6306801104450
 Option 1 ID : 6306804338333
 Option 2 ID : 6306804338335
 Option 3 ID : 6306804338336
 Option 4 ID : 6306804338334
 Status : Marked For Review
 Chosen Option : A

Q.3 For a scenario with an initiating event frequency of 1 per year and a PFD of 10⁻² for the protective layer, what is the mitigated consequence frequency?

- Ans
- A. 0.1 per year.
 - B. 0.001 per year.
 - C. 1 per year.
 - D. 0.01 per year.

Question ID : 6306801102412
 Option 1 ID : 6306804330885
 Option 2 ID : 6306804330887
 Option 3 ID : 6306804330884
 Option 4 ID : 6306804330886
 Status : Marked For Review
 Chosen Option : D

Q.4 What is the main environmental concern associated with hydrofluoric acid (HF) alkylation processes?

- Ans A. Toxic emissions of HF vapours
 B. High energy consumption
 C. Inefficient recycling of isobutane
 D. High production of waste hydrocarbons

Question ID : 6306801102590
Option 1 ID : 6306804331437
Option 2 ID : 6306804331436
Option 3 ID : 6306804331439
Option 4 ID : 6306804331438
Status : Marked For Review
Chosen Option : A

Q.5 Which significant global event increased the demand for synthetic materials and catalysed the development of petrochemicals?

- Ans A. World War I
 B. The Great Depression
 C. World War II
 D. The Industrial Revolution

Question ID : 6306801102665
Option 1 ID : 6306804331585
Option 2 ID : 6306804331586
Option 3 ID : 6306804331587
Option 4 ID : 6306804331584
Status : Marked For Review
Chosen Option : D

Q.6 Which of the following sets of plate-type heat exchangers is NOT correctly matched with its description?

- Ans A. Plate-Fin Heat Exchanger: High heat transfer efficiency suitable for cryogenic applications.
 B. Welded Plate Heat Exchanger: Allows for easy cleaning and is suitable for very dirty fluids.
 C. Brazed Plate Heat Exchanger: Compact design suitable for smaller spaces and high temperatures.
 D. Gasketed Plate Heat Exchanger: The maximum operating temperature is about 250°C.

Question ID : 6306801009002
Option 1 ID : 6306803959521
Option 2 ID : 6306803959519
Option 3 ID : 6306803959520
Option 4 ID : 6306803959518
Status : Marked For Review
Chosen Option : D

Q.7 What role does naphtha play in petrochemical processing within refineries?

- Ans A. It is primarily used for catalytic reforming to increase octane number.
 B. It is employed as a fuel for the refinery's heating processes.
 C. It is used as a feedstock in pyrolysis to produce ethylene and propylene.
 D. It is converted into heavy fuel oil in the distillation unit.

Question ID : 6306801102668
Option 1 ID : 6306804331597
Option 2 ID : 6306804331598
Option 3 ID : 6306804331596
Option 4 ID : 6306804331599
Status : Marked For Review
Chosen Option : C

Q.8 Under what condition does a surface gain energy through radiation?

- Ans A. When it emits more radiation than it absorbs
 B. When it absorbs and emits radiation at the same rate
 C. When it absorbs more radiation than it emits
 D. When the surface is in thermal equilibrium with its surroundings

Question ID : 6306801008865
Option 1 ID : 6306803958983
Option 2 ID : 6306803958984
Option 3 ID : 6306803958982
Option 4 ID : 6306803958985
Status : Answered
Chosen Option : C

Q.9 What does Probability of Failure on Demand (PFD) measure in a safety system?

- Ans A. The effectiveness of a training program.
- B. The likelihood that a system will fail to perform its intended function upon demand.
- C. The frequency at which an initiating event occurs.
- D. The likelihood of an accident occurring.

Question ID : 6306801102365
 Option 1 ID : 6306804330699
 Option 2 ID : 6306804330697
 Option 3 ID : 6306804330696
 Option 4 ID : 6306804330698
 Status : Marked For Review
 Chosen Option : B

Q.10 Which of the following sets of compressors is NOT correctly matched with its characteristics?

- Ans A. Axial compressors : Compress air by forcing it to flow parallel to the axis of rotation through a series of rotating and stationary blades>
- B. Centrifugal compressors : Operate by using rotating impellers to increase air velocity, which is then converted to pressure
- C. Rotary screw compressors : Use a positive displacement mechanism with interlocking helical screws which rotate in the same direction to compress air
- D. Reciprocating compressors : Is a positive displacement compressor that uses pistons and cylinders to compress air, leading to pulsating airflow

Question ID : 6306801012675
 Option 1 ID : 6306803974293
 Option 2 ID : 6306803974292
 Option 3 ID : 6306803974290
 Option 4 ID : 6306803974291
 Status : Answered
 Chosen Option : C

Q.11 Which of the following statements accurately describes the relationship between cloud point, pour point and the overall fluidity of a petroleum product?

- Ans A. The cloud point is used to determine the temperature at which a petroleum product is no longer able to flow, while the pour point indicates the temperature where wax crystals first become visible.
- B. The pour point is the temperature at which the first signs of wax crystallisation appear, whereas the cloud point is the temperature at which the product becomes solidified and loses flowability.
- C. The pour point is always higher than the cloud point, as it reflects the lowest temperature at which the product can still flow after wax crystals have formed.
- D. The cloud point is always lower than the pour point, as it indicates the temperature at which wax begins to crystallise, affecting the initial fluidity.

Question ID : 6306801012418
 Option 1 ID : 6306803973222
 Option 2 ID : 6306803973221
 Option 3 ID : 6306803973223
 Option 4 ID : 6306803973220
 Status : Marked For Review
 Chosen Option : C

Q.12 Which of the following statements are correct regarding vacuum distillation?

1. A pump around is a cooled vacuum distillate stream returned to the column to control its heat load.
2. Liquid propane is used in propane deasphalting for extracting hydrocarbon oil from vacuum residue.
3. Vacuum distillation is followed by solvent extraction to adjust the oil's viscosity index by partially removing high-viscosity aromatic hydrocarbons.
4. The pour point of lube oil is adjusted by removing wax-forming hydrocarbons through low-temperature freezing and separation using solvents like methyl ethyl ketone.

- Ans A. Only 1 and 2
- B. Only 1, 3 and 4
- C. All statements 1, 2, 3 and 4
- D. Only 2 and 3

Question ID : 6306801012452
 Option 1 ID : 6306803973388
 Option 2 ID : 6306803973390
 Option 3 ID : 6306803973391
 Option 4 ID : 6306803973389
 Status : Marked For Review
 Chosen Option : C

Q.13 What is the initial step in the primary cracking of paraffins in FCC?

- Ans
- A. Beta scission
 - B. Hydrogen transfer
 - C. Formation of carbenium ion
 - D. Mild thermal cracking to form olefins

Question ID : 6306801102457
 Option 1 ID : 6306804331066
 Option 2 ID : 6306804331065
 Option 3 ID : 6306804331064
 Option 4 ID : 6306804331067
 Status : Marked For Review
 Chosen Option : C

Q.14 Which of the following formulas is used to calculate the Lost Time Accident Rate (LTAR)?

- Ans
- A. $(\text{Number of lost days} \times 10) / \text{Total accidents}$
 - B. $(\text{Total working hours} \times 100) / \text{Number of lost time accidents}$
 - C. $(\text{Number of lost time accidents} \times 1,000,000) / \text{Total hours worked}$
 - D. $(\text{Number of total accidents} \times 1,000) / \text{Total days worked}$

Question ID : 6306801102415
 Option 1 ID : 6306804330899
 Option 2 ID : 6306804330897
 Option 3 ID : 6306804330896
 Option 4 ID : 6306804330898
 Status : Marked For Review
 Chosen Option : B

Q.15 Which of the following is required under the Risk Management Plan (RMP) but not under the Process Safety Management (PSM) programme?

- Ans
- A. Risk assessment
 - B. Process safety information
 - C. Training
 - D. Hazard evaluation

Question ID : 6306801102292
 Option 1 ID : 6306804330406
 Option 2 ID : 6306804330404
 Option 3 ID : 6306804330407
 Option 4 ID : 6306804330405
 Status : Marked For Review
 Chosen Option : A

Q.16 When performing a job hazard analysis, which question helps to determine the potential severity of an accident?

- Ans
- A. How could it arise?
 - B. What can go wrong?
 - C. What are the other contributing factors?
 - D. What are the consequences?

Question ID : 6306801102252
 Option 1 ID : 6306804330247
 Option 2 ID : 6306804330246
 Option 3 ID : 6306804330245
 Option 4 ID : 6306804330248
 Status : Marked For Review
 Chosen Option : A

Q.17 Which type of reaction primarily occurs during thermal cracking, involving the formation and interaction of free radicals?

- Ans
- A. Catalytic reaction
 - B. Free radical chain reaction
 - C. Electrochemical reaction
 - D. Photochemical reaction

Question ID : 6306801102672
 Option 1 ID : 6306804331612
 Option 2 ID : 6306804331613
 Option 3 ID : 6306804331614
 Option 4 ID : 6306804331615
 Status : Answered
 Chosen Option : B

Q.18 Which of the following statements regarding iso-paraffins in crude oil are correct?

1. The 2- and 3-methyl derivatives are the most abundant.
2. The 4-methyl derivative is present in small amounts, if at all.
3. Slightly branched paraffins predominate over highly branched materials.
4. Highly branched paraffins predominate over slightly branched paraffins.

- Ans
- A. All 1, 2, 3 and 4
 - B. Only 1 and 2
 - C. Only 2, 3 and 4
 - D. Only 1, 2 and 3

Question ID : 6306801012355
 Option 1 ID : 6306803972936
 Option 2 ID : 6306803972933
 Option 3 ID : 6306803972935
 Option 4 ID : 6306803972934
 Status : Answered
 Chosen Option : D

Q.19 In an attempt to increase the flow from 250 to 300 GPM, additional suction pressure is needed. If we increase the pressure by partly closing the back-pressure control valve, this will quickly increase the pressure in the drum from 10 to 15 psig and the pressure at the suction of the pump from 15 to 20 psig. Which of the following changes will take place?

- Ans
- A. The vapour pressure of the liquid will also decrease by 5 psi.
 - B. The available NPSH will be sufficiently increased to support the increased flow from 250 to 300 GPM.
 - C. The composition of the liquid becomes lighter, which reduces the vapour pressure.
 - D. The suction pressure increase is accompanied by an equivalent increase in vapour pressure, leaving the NPSH unchanged.

Question ID : 6306801012658
 Option 1 ID : 6306803974221
 Option 2 ID : 6306803974222
 Option 3 ID : 6306803974220
 Option 4 ID : 6306803974223
 Status : Marked For Review
 Chosen Option : B

Q.20 Degree of saturation of the gas at a given temperature is known as:

- Ans
- A. Relative Humidity
 - B. Dew Point
 - C. Specific Humidity
 - D. Absolute Humidity

Question ID : 6306801009240
 Option 1 ID : 6306803960462
 Option 2 ID : 6306803960464
 Option 3 ID : 6306803960465
 Option 4 ID : 6306803960463
 Status : Marked For Review
 Chosen Option : A

Q.21 Which of the following statements is NOT correct for the overall heat transfer coefficient (U)?

- Ans
- A. The presence of fouling on the heat transfer surfaces of a heat exchanger will decrease the overall heat transfer coefficient.
 - B. The overall heat transfer coefficient for gas-to-gas heat exchangers is about 10,000 W/m²·°C.
 - C. The presence of a finned surface on a heat exchanger increases the overall heat transfer coefficient.
 - D. The overall heat transfer coefficient in a heat exchanger is dominated by the smaller heat transfer coefficient when the difference between the two values is large.

Question ID : 6306801008958
 Option 1 ID : 6306803959347
 Option 2 ID : 6306803959346
 Option 3 ID : 6306803959349
 Option 4 ID : 6306803959348
 Status : Marked For Review
 Chosen Option : B

Q.22 Which advanced technology for waste minimisation in refineries focuses on converting waste products into valuable by-products through chemical processes?

- Ans A. Incineration with energy recovery
 B. Cracking
 C. Gasification
 D. Anaerobic digestion

Question ID : 6306801102445
 Option 1 ID : 6306804331016
 Option 2 ID : 6306804331018
 Option 3 ID : 6306804331019
 Option 4 ID : 6306804331017
 Status : Marked For Review
 Chosen Option : A

Q.23 Which of the following sets of refining units used in atmospheric distillation is NOT correctly matched with its primary function?

- Ans A. De-ethaniser Column: Methane and ethane are separated from propane and butanes
 B. LPG Splitter: Separates methane and ethane from LPG
 C. Amine Absorption Unit: Removes hydrogen sulfide from the gaseous hydrocarbons mixture
 D. Stabilisation Column: Separates gaseous hydrocarbons from naphtha

Question ID : 6306801012433
 Option 1 ID : 6306803973306
 Option 2 ID : 6306803973307
 Option 3 ID : 6306803973305
 Option 4 ID : 6306803973304
 Status : Answered
 Chosen Option : B

Q.24 What type of polymer is polypropylene classified as?

- Ans A. Thermosetting polymer
 B. Thermoplastic polymer
 C. Fiber
 D. Elastomer

Question ID : 6306801103346
 Option 1 ID : 6306804334296
 Option 2 ID : 6306804334297
 Option 3 ID : 6306804334299
 Option 4 ID : 6306804334298
 Status : Marked For Review
 Chosen Option : B

Q.25 What is the primary factor that differentiates high-density polyethylene (HDPE) from low-density polyethylene (LDPE)?

- Ans A. The molecular weight of the polymer
 B. The polymerisation pressure and temperature
 C. The crystallinity and branching of the polymer
 D. The type of initiator used in the polymerisation

Question ID : 6306801103854
 Option 1 ID : 6306804336089
 Option 2 ID : 6306804336090
 Option 3 ID : 6306804336091
 Option 4 ID : 6306804336088
 Status : Marked For Review
 Chosen Option : A

Q.26 According to Cohen and Coon's method, how is the dead time τ_d estimated?

- Ans A. As the time constant of the first-order system
 B. As the slope of the sigmoidal response at the point of inflection
 C. As the difference between the input and output at steady state
 D. As the time elapsed until the system responded to the input change

Question ID : 6306801104383
 Option 1 ID : 6306804338069
 Option 2 ID : 6306804338067
 Option 3 ID : 6306804338070
 Option 4 ID : 6306804338068
 Status : Marked For Review
 Chosen Option : B

Q.27 How does the sensitivity of the controller's actuating signal to deviations $e(t)$ change with an increase in the proportional gain K ?

- Ans A. Sensitivity increases
 B. Sensitivity decreases
 C. Sensitivity becomes zero
 D. Sensitivity remains unchanged

Question ID : 6306801104400
Option 1 ID : 6306804338137
Option 2 ID : 6306804338135
Option 3 ID : 6306804338138
Option 4 ID : 6306804338136
Status : Marked For Review
Chosen Option : A

Q.28 Which of the following options about the following Assertion (A) and Reason (R) is correct?

Assertion (A): The yield of paraffin isomerisation is lower when using zeolite catalysts.
Reason (R): Zeolite isomerisation catalysts operate at higher temperatures and are less selective.

- Ans A. Both A and R are true, but R is not the correct explanation of A
 B. A is false and R is true
 C. Both A and R are true, and R is the correct explanation of A
 D. A is true but R is false

Question ID : 6306801012554
Option 1 ID : 6306803973793
Option 2 ID : 6306803973795
Option 3 ID : 6306803973792
Option 4 ID : 6306803973794
Status : Marked For Review
Chosen Option : D

Q.29 Which of the following statements correctly distinguishes between axial and centrifugal compressors?

- Ans A. Axial compressors operate by using rotating impellers to increase air velocity, which is then converted into pressure, while centrifugal compressors use a positive displacement mechanism with interlocking screws to compress air.
 B. Centrifugal compressors compress air by forcing it through rotating and stationary blades parallel to the axis, whereas axial compressors increase air velocity and convert this kinetic energy into pressure through a diffuser.
 C. Centrifugal compressors use rotating impellers to increase air velocity, which is then converted into pressure, while axial compressors increase air pressure by forcing air through a series of rotating and stationary blades parallel to the axis.
 D. Axial compressors compress air by increasing its velocity and then converting this kinetic energy into pressure through a diffuser, whereas centrifugal compressors force air to flow parallel to the axis of rotation through rotating and stationary blades.

Question ID : 6306801012683
Option 1 ID : 6306803974324
Option 2 ID : 6306803974325
Option 3 ID : 6306803974323
Option 4 ID : 6306803974322
Status : Answered
Chosen Option : C

Q.30 What is the primary purpose of using extended surfaces (fins) in heat exchangers?

- Ans A. To reduce the cost of manufacturing the equipment
 B. To decrease the overall size of the heat exchanger
 C. To increase the volume of the equipment
 D. To enhance heat transfer by increasing the surface area

Question ID : 6306801009008
Option 1 ID : 6306803959544
Option 2 ID : 6306803959545
Option 3 ID : 6306803959542
Option 4 ID : 6306803959543
Status : Answered
Chosen Option : D

Q.31 In this question, a statement of Assertion (A) is followed by a statement of Reason (R). Which of the given options is correct?

Assertion (A): Plate-type heat exchangers are ideal for high heat transfer efficiency applications.

Reason (R): The design allows hot and cold fluids to flow in alternate passages, with each cold fluid stream surrounded by two hot fluid streams.

Ans A. Both A and R are true, and R is the correct explanation of A.

B. A is true but R is false.

C. A is false and R is true.

D. Both A and R are true, but R is not the correct explanation of A.

Question ID : 630680100891
Option 1 ID : 6306803959478
Option 2 ID : 6306803959480
Option 3 ID : 6306803959481
Option 4 ID : 6306803959479
Status : Answered
Chosen Option : A

Q.32 Which of the following is a major by-product in the liquid-phase oxidation of o-xylene to phthalic anhydride?

Ans A. Acetic acid

B. Dimethyl terephthalate

C. Toluic acid

D. Benzoic acid

Question ID : 6306801104204
Option 1 ID : 6306804337361
Option 2 ID : 6306804337362
Option 3 ID : 6306804337360
Option 4 ID : 6306804337359
Status : Marked For Review
Chosen Option : B

Q.33 What is Fatal Accident Rate (FAR) used to measure?

Ans A. The number of deaths in 100 million hours of exposure

B. The number of deaths in 10,000 hours of exposure

C. The number of accidents in a specific industry

D. The total accidents in a year

Question ID : 6306801102363
Option 1 ID : 6306804330690
Option 2 ID : 6306804330689
Option 3 ID : 6306804330691
Option 4 ID : 6306804330688
Status : Marked For Review
Chosen Option : B

Q.34 Which of the following statements is/are correct regarding tray types in distillation columns?

Statement I: Bubble-cap trays provide a large surface area for vapour-liquid contact and can handle varying flow rates.

Statement II: A sieve tray has perforations that allow vapour to pass through while liquid flows over the tray, promoting efficient vapour-liquid contact and separation.

Ans A. Neither Statement I nor Statement II is correct.

B. Only Statement II is correct.

C. Both Statement I and Statement II are correct.

D. Only Statement I is correct.

Question ID : 6306801012753
Option 1 ID : 6306803974605
Option 2 ID : 6306803974603
Option 3 ID : 6306803974604
Option 4 ID : 6306803974602
Status : Answered
Chosen Option : C

Q.35 What is the standard number of work hours used in the OSHA Incidence Rate formula?

- Ans A. 400,000
 B. 300,000
 C. 100,000
 D. 200,000

Question ID : 6306801102418
Option 1 ID : 6306804330911
Option 2 ID : 6306804330910
Option 3 ID : 6306804330908
Option 4 ID : 6306804330909
Status : Answered
Chosen Option : B

Q.36 Which of the following is NOT an essential component of a fired heater construction?

- Ans A. Refractory lining - Used to protect the heater's interior surfaces from high temperatures and prevent heat loss
 B. Baffle plates - Used in convection section to direct fluid flow and controlling fouling
 C. Convection section - Where heat is transferred by convection from flue gases to the process tubes, often containing finned tubes for enhanced heat transfer
 D. Radiant section - Where heat is primarily transferred by radiation from the flame and hot gases to the process tubes

Question ID : 6306801012717
Option 1 ID : 6306803974464
Option 2 ID : 6306803974465
Option 3 ID : 6306803974463
Option 4 ID : 6306803974462
Status : Answered
Chosen Option : B

Q.37 In multistage pumps, to maintain a uniform discharge pressure with a high flow rate, a number of impellers are connected in:

- Ans A. perpendicular alignment
 B. series
 C. opposite directions
 D. parallel

Question ID : 6306801012568
Option 1 ID : 6306803973859
Option 2 ID : 6306803973856
Option 3 ID : 6306803973858
Option 4 ID : 6306803973857
Status : Marked For Review
Chosen Option : B

Q.38 Which of the following processes is used to enhance the yield of p-xylene from C9 to C10 aromatics in an aromatics complex?

- Ans A. Isomerisation
 B. Transalkylation
 C. Oxidation
 D. Ammoxidation

Question ID : 6306801104211
Option 1 ID : 6306804337394
Option 2 ID : 6306804337393
Option 3 ID : 6306804337391
Option 4 ID : 6306804337392
Status : Answered
Chosen Option : A

Q.39 What is the key reason toluene is less useful than benzene for chemical synthesis, despite its higher reactivity?

- Ans A. Toluene cannot undergo oxidation reactions easily.
 B. Toluene is less reactive in electrophilic substitution reactions.
 C. Toluene lacks sufficient electron density in its aromatic ring.
 D. Toluene forms more polysubstituted products.

Question ID : 6306801104190
Option 1 ID : 6306804337310
Option 2 ID : 6306804337308
Option 3 ID : 6306804337309
Option 4 ID : 6306804337307
Status : Marked For Review
Chosen Option : A

Q.40 What characteristic of polypropylene produced by free radical initiation limits its suitability for thermoplastic or fibre use?

- Ans
- A. High crystallinity
 - B. High impact strength
 - C. High molecular weight
 - D. Low crystallinity

Question ID : 6306801103842
Option 1 ID : 6306804336064
Option 2 ID : 6306804336067
Option 3 ID : 6306804336065
Option 4 ID : 6306804336066
Status : Marked For Review
Chosen Option : D

Q.41 Which waste management hierarchy level is considered most effective in reducing environmental impact?

- Ans
- A. Waste treatment
 - B. Waste reduction at source
 - C. Waste recycling
 - D. Waste disposal

Question ID : 6306801102442
Option 1 ID : 6306804331005
Option 2 ID : 6306804331007
Option 3 ID : 6306804331006
Option 4 ID : 6306804331004
Status : Answered
Chosen Option : C

Q.42 What does 'Lost Time Accident Rate (LTAR)' measure in workplace safety?

- Ans
- A. The frequency of accidents that result in employees being unable to work
 - B. The total number of workplace accidents in a year
 - C. The total number of days lost due to accidents
 - D. The severity of accidents based on injury level

Question ID : 6306801102413
Option 1 ID : 6306804330890
Option 2 ID : 6306804330888
Option 3 ID : 6306804330889
Option 4 ID : 6306804330891
Status : Answered
Chosen Option : C

Q.43 Which type of jobs should be prioritised for a Job Hazard Analysis?

- Ans
- A. Jobs with the potential for severe or disabling injuries
 - B. Jobs with the lowest injury rates
 - C. Jobs that require minimal training
 - D. Jobs that have not undergone any changes

Question ID : 6306801102251
Option 1 ID : 6306804330243
Option 2 ID : 6306804330241
Option 3 ID : 6306804330244
Option 4 ID : 6306804330242
Status : Answered
Chosen Option : B

Q.44 In which type of diffusion is the mean free path of the diffusing molecules comparable to the dimensions of the pores in the medium?

- Ans
- A. Thermal Diffusion
 - B. Molecular Diffusion
 - C. Eddy Diffusion
 - D. Knudsen Diffusion

Question ID : 6306801009885
Option 1 ID : 6306803963026
Option 2 ID : 6306803963023
Option 3 ID : 6306803963024
Option 4 ID : 6306803963025
Status : Answered
Chosen Option : D

Q.45 What is the reaction product when mercaptans (RSH) undergo desulphurisation in the hydrotreating process?

- Ans
- A. RH and HCl
 - B. H₂ and RH
 - C. RH and H₂S
 - D. RH and NH₃

Question ID : 6306801102575
Option 1 ID : 6306804331380
Option 2 ID : 6306804331383
Option 3 ID : 6306804331381
Option 4 ID : 6306804331382
Status : Answered
Chosen Option : C

Q.46 In thermal cracking, what is the effect of increasing the residence time on the product distribution?

- Ans
- A. Increases the yield of light olefins and decreases the yield of heavy products
 - B. Decreases the formation of coke and increases the yield of gases
 - C. Decreases the yield of light olefins and increases the yield of heavy products
 - D. Has no significant effect on product distribution

Question ID : 6306801102674
Option 1 ID : 6306804331621
Option 2 ID : 6306804331623
Option 3 ID : 6306804331620
Option 4 ID : 6306804331622
Status : Answered
Chosen Option : C

Q.47 In mass transfer, the phenomenon where a temperature gradient is generated as a result of a constant concentration gradient is known as:

- Ans
- A. the Dufour Effect
 - B. the Fick Effect
 - C. the Soret Effect
 - D. the Fourier Effect

Question ID : 6306801011501
Option 1 ID : 6306803969537
Option 2 ID : 6306803969536
Option 3 ID : 6306803969535
Option 4 ID : 6306803969538
Status : Answered
Chosen Option : B

Q.48 What is the primary objective of the Risk Management Plan (RMP) regulation?

- Ans
- A. To increase production efficiency in plants
 - B. To protect off-site people and the environment
 - C. To regulate the use of hazardous chemicals in homes
 - D. To prevent on-site accidents only

Question ID : 6306801102289
Option 1 ID : 6306804330392
Option 2 ID : 6306804330393
Option 3 ID : 6306804330395
Option 4 ID : 6306804330394
Status : Answered
Chosen Option : B

Q.49 Which of the following products was/were first developed in the petrochemical industry in the 1900s?

- Ans
- A. Petrochemical solvents
 - B. Polystyrene
 - C. Bakelite
 - D. Synthetic rubber

Question ID : 6306801102661
Option 1 ID : 6306804331571
Option 2 ID : 6306804331569
Option 3 ID : 6306804331570
Option 4 ID : 6306804331568
Status : Marked For Review
Chosen Option : C

Q.50 In a PI controller, which component would be responsible for correcting the error based on past deviations from the setpoint?

- Ans
- A. Feedback component
 - B. Derivative component
 - C. Proportional component
 - D. Integral component

Question ID : 6306801104425
Option 1 ID : 6306804338240
Option 2 ID : 6306804338239
Option 3 ID : 6306804338237
Option 4 ID : 6306804338238
Status : Marked For Review
Chosen Option : D

Q.51 What action is required for refineries located in critically polluted areas concerning SO₂ emissions?

- Ans
- A. Installation of advanced filters
 - B. Increase in production capacities
 - C. Implementation of carbon-capture technologies
 - D. Submission of an action plan for phase-wise reduction of SO₂ emissions

Question ID : 6306801102422
Option 1 ID : 6306804330924
Option 2 ID : 6306804330927
Option 3 ID : 6306804330926
Option 4 ID : 6306804330925
Status : Answered
Chosen Option : D

Q.52 What is the purpose of linearisation in process modelling?

- Ans
- A. To simplify nonlinear systems by approximating them with linear ones
 - B. To remove all variables from the system
 - C. To make the system more nonlinear
 - D. To add more complexity to the system

Question ID : 6306801104279
Option 1 ID : 6306804337656
Option 2 ID : 6306804337658
Option 3 ID : 6306804337655
Option 4 ID : 6306804337657
Status : Answered
Chosen Option : A

Q.53 What is the maximum allowable treated effluent discharge quantity (excluding once through cooling water) for refineries, except during the monsoon season?

- Ans
- A. 0.4 m³ per tonne
 - B. 0.3 m³ per tonne
 - C. 0.5 m³ per tonne
 - D. 0.2 m³ per tonne

Question ID : 6306801102421
Option 1 ID : 6306804330922
Option 2 ID : 6306804330921
Option 3 ID : 6306804330923
Option 4 ID : 6306804330920
Status : Answered
Chosen Option : D

Q.54 In hydrotreating, which product is formed from the hydrogenation of benzene (C₆H₆)?

- Ans
- A. Naphthalene
 - B. Tetraline
 - C. Cyclohexane
 - D. Butane

Question ID : 6306801102573
Option 1 ID : 6306804331375
Option 2 ID : 6306804331374
Option 3 ID : 6306804331373
Option 4 ID : 6306804331372
Status : Marked For Review
Chosen Option : C

Q.55 Under what conditions is low-density polyethylene (LDPE) typically produced?

- Ans A. High pressure and high temperature with peroxide catalysts
 B. Low pressure and low temperature with Ziegler-type catalysts
 C. Moderate pressure and temperature with organometallic catalysts
 D. Moderate pressure and low temperature with metallocene catalysts

Question ID : 6306801103865
Option 1 ID : 6306804336125
Option 2 ID : 6306804336126
Option 3 ID : 6306804336124
Option 4 ID : 6306804336127
Status : Marked For Review
Chosen Option : A

Q.56 Which of the following statements correctly describes the impact of fluid density on the virtual head and pressure developed by a centrifugal pump?

- Ans A. The virtual head is inversely proportional to fluid density, while the pressure is directly proportional to fluid density.
 B. The virtual head is independent of fluid density, while the pressure is directly proportional to fluid density.
 C. Both the virtual head and pressure developed by the pump are independent of fluid density.
 D. The virtual head is directly proportional to fluid density, while the pressure is inversely proportional to fluid density.

Question ID : 6306801012576
Option 1 ID : 6306803973891
Option 2 ID : 6306803973889
Option 3 ID : 6306803973890
Option 4 ID : 6306803973888
Status : Marked For Review
Chosen Option : A

Q.57 Which of the following is NOT a correct reason for the formation of cavitation in centrifugal pumps?

- Ans A. The pump's inability to develop the required suction head due to insufficient pressure
 B. The pressure at the suction port drops below the vapour pressure of the fluid
 C. The formation of vapour bubbles due to low pressure at the pump's suction side
 D. It is primarily caused by excessive fluid density within the pump.

Question ID : 6306801012580
Option 1 ID : 6306803974191
Option 2 ID : 6306803974189
Option 3 ID : 6306803974188
Option 4 ID : 6306803974190
Status : Answered
Chosen Option : D

Q.58 In a heat exchanger, the fouling factor increases over time due to the accumulation of solid deposits. Which of the following statements about the fouling factor is NOT true?

- Ans A. Increasing the fluid velocity can help reduce the fouling factor by minimising the time solid particles have to deposit.
 B. Fouling is more severe at higher operating temperatures due to accelerated chemical reactions and precipitation.
 C. The fouling factor remains constant once the heat exchanger reaches steady-state operation conditions.
 D. The fouling factor can be affected by the chemical composition of the fluids in the heat exchanger.

Question ID : 6306801008970
Option 1 ID : 6306803959395
Option 2 ID : 6306803959397
Option 3 ID : 6306803959396
Option 4 ID : 6306803959394
Status : Marked For Review
Chosen Option : B

Q. In a binary gas mixture at steady state, the concentration of species A at point 1 is C_{A1} and at point 2 is C_{A2} . The distance between these two points is Δx . According to Fick's First Law of Diffusion, which of the following statements is correct?

- 1) The diffusion flux J_A is directly proportional to the concentration gradient $\frac{C_{A2} - C_{A1}}{\Delta x}$.
- 2) The diffusion flux J_A is inversely proportional to the diffusion coefficient D_A .
- 3) The diffusion flux J_A is independent of the temperature of the system.
- 4) By convention, the diffusion flux J_A is positive quantity, indicating movement from higher to lower concentration.
- 5) The diffusion flux J_A is given by the equation $J_A = -D_A \frac{dC_A}{dx}$.

Ans

- A. Only 2 and 3
- B. Only 1, 2, and 5
- C. Only 1 and 5
- D. Only 1, 4 and 5

Question ID : 6306801012318
 Option 1 ID : 6306803972786
 Option 2 ID : 6306803972788
 Option 3 ID : 6306803972785
 Option 4 ID : 6306803972787
 Status : Answered
 Chosen Option : D

Q.60 Which of the following statements about distillation columns is/are correct?

- A. Packed columns are generally preferred over tray columns for handling large liquid loads.
- B. Tray columns are more efficient than packed columns for systems with low liquid loads.
- C. Packed columns typically provide a higher pressure drop than tray columns for the same separation duty.
- D. Tray columns are better suited for operations involving a wide range of feed compositions and liquid rates.

Ans

- A. Only A
- B. A and D
- C. A, B and C
- D. Only D

Question ID : 630680833977
 Option 1 ID : 6306803266786
 Option 2 ID : 6306803266788
 Option 3 ID : 6306803266789
 Option 4 ID : 6306803266787
 Status : Answered
 Chosen Option : D

Q.61 What is the primary purpose of the proportional part of a PI controller?

- Ans A. To eliminate steady-state error by accumulating past errors
- B. To stabilise the system by adjusting for future errors
- C. To adjust the output based on the current error
- D. To integrate past errors into the system response

Question ID : 6306801104431
 Option 1 ID : 6306804338261
 Option 2 ID : 6306804338263
 Option 3 ID : 6306804338262
 Option 4 ID : 6306804338264
 Status : Answered
 Chosen Option : A

Q.62 What is the first step in the Job Safety Analysis (JSA) process?

- Ans A. Develop control measures
- B. Record the steps in the task
- C. Identify the hazards and assess the risks
- D. Select the job to be analysed

Question ID : 6306801102243
 Option 1 ID : 6306804330212
 Option 2 ID : 6306804330209
 Option 3 ID : 6306804330211
 Option 4 ID : 6306804330210
 Status : Answered
 Chosen Option : D

Q.63 Which of the following reactions is NOT a primary reaction in FCC?

- Ans A. Hydrogenation
 B. Cracking of large hydrocarbons
 C. Isomerization
 D. Dehydrogenation

Question ID : 6306801102452
 Option 1 ID : 6306804331047
 Option 2 ID : 6306804331044
 Option 3 ID : 6306804331046
 Option 4 ID : 6306804331045
 Status : Answered
 Chosen Option : A

Q.64 If Component A diffuses in a binary mixture of A and B, then according to Fick's law, the flux of A is expressed as:

- Ans A. $J_A = -D_{AB} \frac{dC_A}{dx}$
 B. $J_A = D_{AB} \frac{dC_A}{dx}$
 C. $J_A = D_{BA} \frac{dC_A}{dx}$
 D. $J_A = -D_{AB} \frac{dC_B}{dx}$

Question ID : 6306801011535
 Option 1 ID : 6306803969684
 Option 2 ID : 6306803969685
 Option 3 ID : 6306803969686
 Option 4 ID : 6306803969683
 Status : Answered
 Chosen Option : A

Q.65 The diffusion coefficient of a gas is found to decrease with an increase in:

- Ans A. temperature
 B. concentration
 C. pressure
 D. volume

Question ID : 6306801009892
 Option 1 ID : 6306803963051
 Option 2 ID : 6306803963053
 Option 3 ID : 6306803963052
 Option 4 ID : 6306803963054
 Status : Answered
 Chosen Option : C

Q.66 Why is the pour point an important property for certain petroleum products?

- Ans A. It indicates the temperature at which the product achieves its maximum flow rate.
 B. It reflects the temperature at which the product starts to decompose or lose its chemical stability.
 C. It determines the temperature at which the product can be transported without special heating requirements.
 D. It measures the temperature at which the product's viscosity is at its minimum.

Question ID : 6306801012405
 Option 1 ID : 6306803973147
 Option 2 ID : 6306803973148
 Option 3 ID : 6306803973146
 Option 4 ID : 6306803973149
 Status : Answered
 Chosen Option : C

Q.67 What is the mathematical relationship between the flow rate (Q) and the pressure difference (ΔP) across a flow sensor?

- Ans A. $Q = \Delta P / \alpha$
 B. $Q = \alpha \sqrt{\Delta P}$
 C. $Q = \alpha + \sqrt{\Delta P}$
 D. $Q = \alpha \cdot \Delta P$

Question ID : 6306801104260
 Option 1 ID : 6306804337582
 Option 2 ID : 6306804337581
 Option 3 ID : 6306804337580
 Option 4 ID : 6306804337579
 Status : Answered
 Chosen Option : C

Q.68 The main governing mode(s) of heat transfer in the construction of a fired heater is/are:

- Ans A. both radiation and convection
 B. only convection
 C. only radiation
 D. both radiation and conduction

Question ID : 630680834319
 Option 1 ID : 6306803268097
 Option 2 ID : 6306803268095
 Option 3 ID : 6306803268094
 Option 4 ID : 6306803268096
 Status : Answered
 Chosen Option : A

Q.69 In a packed distillation column, which of the following combinations INCORRECTLY associates the function with the component?

- Ans A. Entrainment eliminator : Reduces the carryover of liquid droplets into the vapour phase
 B. End effects : Enhance the mass transfer efficiency at the column ends
 C. Packing restrainer : Prevents the packing material from moving
 D. >Redistributor : Ensures uniform distribution of liquid over the packing

Question ID : 6306801012771
 Option 1 ID : 6306803974672
 Option 2 ID : 6306803974671
 Option 3 ID : 6306803974673
 Option 4 ID : 6306803974670
 Status : Answered
 Chosen Option : B

Q.70 Which of the following best describes the process of steam cracking?

- Ans A. Conversion of gaseous hydrocarbons into liquid hydrocarbons using hydrogen
 B. Decomposition of feedstock into lower-molecular-weight hydrocarbons
 C. Conversion of feedstock into aromatic hydrocarbons using sulphuric acid
 D. Decomposition of feedstock into higher-molecular-weight hydrocarbons

Question ID : 6306801102736
 Option 1 ID : 6306804331871
 Option 2 ID : 6306804331870
 Option 3 ID : 6306804331869
 Option 4 ID : 6306804331868
 Status : Answered
 Chosen Option : B

Q.71 What is the primary function of a packing restrainer in a packed distillation column?

- Ans A. To enhance vapour-liquid contact
 B. To increase the surface area for mass transfer
 C. To reduce pressure drop across the column
 D. To prevent the packing material from moving

Question ID : 6306801012762
 Option 1 ID : 6306803974636
 Option 2 ID : 6306803974634
 Option 3 ID : 6306803974637
 Option 4 ID : 6306803974635
 Status : Answered
 Chosen Option : D

Q.72 Which of the following statements accurately describes the significance of the Nusselt number (Nu) in heat transfer?

- Ans A. $Nu \approx 1$ indicates heat transfer through the fluid layer is dominated by convection.
- B. A higher Nu number means convection is less effective than conduction.
- C. A Nu number greater than 1 in forced convection shows enhanced heat transfer.
- D. The Nu number represents the ratio of thermal conductivity to the rate of heat transfer.

Question ID : 630680100880
 Option 1 ID : 6306803959042
 Option 2 ID : 6306803959043
 Option 3 ID : 6306803959044
 Option 4 ID : 6306803959045
 Status : Answered
 Chosen Option : C

Q.73 What is a key disadvantage of using the Pt/zeolite catalyst compared to the Pt/chlorinated alumina catalyst?

- Ans A. Greater requirement for hydrogen pressure
- B. Lower activity requiring higher reaction temperatures
- C. Higher sensitivity to impurities
- D. Increased risk of coke deposition

Question ID : 6306801102643
 Option 1 ID : 6306804331498
 Option 2 ID : 6306804331497
 Option 3 ID : 6306804331496
 Option 4 ID : 6306804331499
 Status : Marked For Review
 Chosen Option : B

Q.74 A combination of dry bulb thermometer and wet bulb thermometer is called:

- Ans A. hair hygrometer
- B. dew point meter
- C. infrared thermometer
- D. psychrometer

Question ID : 6306801009341
 Option 1 ID : 6306803960863
 Option 2 ID : 6306803960861
 Option 3 ID : 6306803960862
 Option 4 ID : 6306803960864
 Status : Answered
 Chosen Option : C

Q.75 Which polymerisation process is used to produce isotactic polypropylene?

- Ans A. Free radical initiation
- B. Addition polymerisation with high temperatures
- C. Co-ordination polymerisation with Ziegler-Natta catalysts
- D. Condensation polymerisation

Question ID : 6306801103829
 Option 1 ID : 6306804336028
 Option 2 ID : 6306804336030
 Option 3 ID : 6306804336029
 Option 4 ID : 6306804336031
 Status : Answered
 Chosen Option : C

Section : Numerical Ability

Q.76 A number is decreased by 35% to get another number. The number so obtained is increased by 300% to get a third number. The difference of the third number and the original number is what percentage (rounded off to 2 decimal places) more or less than the difference of the second and the third number?

- Ans A. 11.23% less
- B. 17.95% more
- C. 11.23% more
- D. 17.95% less

Question ID : 630680631998
 Option 1 ID : 6306802473894
 Option 2 ID : 6306802473897
 Option 3 ID : 6306802473896
 Option 4 ID : 6306802473895
 Status : Marked For Review
 Chosen Option : C

Q.77 The list price of an article is ₹44000 and a discount of 10% is offered on the list price. What additional discount per cent on the already discounted price must be offered to a customer to bring the net selling price to ₹792?

- Ans A. 93
 B. 98
 C. 101
 D. 100

Question ID : 630680802616
Option 1 ID : 6306803144622
Option 2 ID : 6306803144620
Option 3 ID : 6306803144621
Option 4 ID : 6306803144623
Status : Answered
Chosen Option : B

Q.78 102 men have provisions for 12 days. If 34 men have left, for how many days the same provisions would last for the remaining men?

- Ans A. 20
 B. 18
 C. 16
 D. 22

Question ID : 6306801063169
Option 1 ID : 6306804175037
Option 2 ID : 6306804175035
Option 3 ID : 6306804175036
Option 4 ID : 6306804175038
Status : Answered
Chosen Option : C

Q.79 A train runs at a speed of 74 km/hr and halts at 10 junctions for a certain time. It covers a distance of 1665 km in 24 hours. How long (in minutes) does the train stop at each junction if it halts for the same period of time at all the junctions?

- Ans A. 9
 B. 12
 C. 10
 D. 8

Question ID : 630680630889
Option 1 ID : 6306802469514
Option 2 ID : 6306802469512
Option 3 ID : 6306802469513
Option 4 ID : 6306802469515
Status : Answered
Chosen Option : A

Q.80 The number 5172324 can be divided by which of the given numbers?

- Ans A. 11
 B. 12
 C. 8
 D. 9

Question ID : 630680533612
Option 1 ID : 6306802085925
Option 2 ID : 6306802085927
Option 3 ID : 6306802085928
Option 4 ID : 6306802085926
Status : Marked For Review
Chosen Option : B

Q.81 The average of first 91 odd natural numbers, is:

- Ans A. 92
 B. 91
 C. 90
 D. 45.5

Question ID : 630680551964
Option 1 ID : 6306802158082
Option 2 ID : 6306802158081
Option 3 ID : 6306802158083
Option 4 ID : 6306802158084
Status : Answered
Chosen Option : D

Q.82 The difference between the compound interest (when interest is compounded annually) and the simple interest if ₹44800 is deposited at 5% rate of interest per annum for 2 years is:

- Ans
- A. ₹121.4
 - B. ₹104.7
 - C. ₹112
 - D. ₹102.9

Question ID : 630680855829
 Option 1 ID : 6306803352020
 Option 2 ID : 6306803352019
 Option 3 ID : 6306803352018
 Option 4 ID : 6306803352021
 Status : Answered
 Chosen Option : C

Q.83 Two trains having lengths of 180 m and 420 m are running at speeds of 70 km/h and 100 km/h, respectively, in the same direction. The time taken (in minutes) by the faster train, coming from behind, to completely cross the other train is:

- Ans
- A. 1.2
 - B. 3.9
 - C. 2
 - D. 3

Question ID : 6306801063188
 Option 1 ID : 6306804175111
 Option 2 ID : 6306804175113
 Option 3 ID : 6306804175114
 Option 4 ID : 6306804175112
 Status : Answered
 Chosen Option : A

Q.84 The internal surface area (in m^2) of an open cuboidal tank whose internal length, internal breadth, and internal height are given as 15 m, 17 m, and 16 m, respectively, is:

- Ans
- A. 1279
 - B. 1274
 - C. 1297
 - D. 1290

Question ID : 630680855857
 Option 1 ID : 6306803352130
 Option 2 ID : 6306803352132
 Option 3 ID : 6306803352131
 Option 4 ID : 6306803352133
 Status : Marked For Review
 Chosen Option : A

Q.85 If each side of the cube is increased by 20%, then by what percentage is the surface area increased?

- Ans
- A. 39%
 - B. 44%
 - C. 28%
 - D. 32%

Question ID : 630680641440
 Option 1 ID : 6306802511176
 Option 2 ID : 6306802511177
 Option 3 ID : 6306802511174
 Option 4 ID : 6306802511175
 Status : Marked For Review
 Chosen Option : D

Q.86 Simplify: $110 - [125 \div (5 \times 5) + 6 + 12 \div 7 - 3 + 10]$

- Ans
- A. 69
 - B. 48
 - C. 25
 - D. 86

Question ID : 630680630247
 Option 1 ID : 6306802467013
 Option 2 ID : 6306802467012
 Option 3 ID : 6306802467011
 Option 4 ID : 6306802467014
 Status : Marked For Review
 Chosen Option : B

Q.87 Tushar invests a sum of ₹5400 and Salil invests a sum of ₹10200 at the same rate of simple interest per annum. If, at the end of 6 years, Salil gets ₹360 more interest than Tushar, then find the rate of interest per annum (in percentage).

- Ans
- A. 2.5
 - B. 1.25
 - C. 3.25
 - D. 3.5

Question ID : 630680613597
 Option 1 ID : 6306802401121
 Option 2 ID : 6306802401120
 Option 3 ID : 6306802401122
 Option 4 ID : 6306802401123
 Status : Answered
 Chosen Option : B

Q.88 Three partner Sanjana, Kartik and Deepa invest ₹ 26000, ₹14000, and ₹9000 respectively in a business together. If they divide a profit of ₹2856, as per their investment, then find the share of profit received by Kartik.

- Ans
- A. ₹766
 - B. ₹966
 - C. ₹716
 - D. ₹816

Question ID : 6306801063175
 Option 1 ID : 6306804175060
 Option 2 ID : 6306804175062
 Option 3 ID : 6306804175061
 Option 4 ID : 6306804175059
 Status : Answered
 Chosen Option : D

Q.89 The distance (rounded off to two decimal place) between two points on a map is 4 cm. The scale of the map is 1 : 653068. The actual distance (rounded off to two decimal place) between the two points (in km) is:

- Ans
- A. 31.97
 - B. 26.12
 - C. 25.16
 - D. 26.55

Question ID : 630680789700
 Option 1 ID : 6306803094583
 Option 2 ID : 6306803094580
 Option 3 ID : 6306803094582
 Option 4 ID : 6306803094581
 Status : Marked For Review
 Chosen Option : B

Q.90 A man sold his scooter for ₹9,500, incurring a loss of one-fifth of its selling price. What is the loss percentage (rounded off to the nearest whole number)?

- Ans A. 26%
 B. 13%
 C. 20%
 D. 17%

Question ID : 630680619211
Option 1 ID : 6306802423137
Option 2 ID : 6306802423139
Option 3 ID : 6306802423136
Option 4 ID : 6306802423138
Status : Answered
Chosen Option : D

Section : General Awareness

Q.91 Which Article of the Indian Constitution provides for the manner of election of the President?

- Ans A. Article 58
 B. Article 55
 C. Article 63
 D. Article 52

Question ID : 630680942585
Option 1 ID : 6306803694780
Option 2 ID : 6306803694779
Option 3 ID : 6306803694781
Option 4 ID : 6306803694778
Status : Answered
Chosen Option : C

Q.92 According to Census 2011, which of the following states of India were the most and the least populated states in the country, respectively?

- Ans A. Rajasthan and Tripura
 B. Uttar Pradesh and Mizoram
 C. Uttar Pradesh and Sikkim
 D. Rajasthan and Sikkim

Question ID : 630680943361
Option 1 ID : 6306803697812
Option 2 ID : 6306803697810
Option 3 ID : 6306803697809
Option 4 ID : 6306803697811
Status : Answered
Chosen Option : B

Q.93 In 2014, the Union Cabinet gave its approval to classify which language as a classical language?

- Ans A. Malayalam
 B. Telugu
 C. Kannada
 D. Odia

Question ID : 630680990555
Option 1 ID : 6306803886558
Option 2 ID : 6306803886557
Option 3 ID : 6306803886559
Option 4 ID : 6306803886556
Status : Answered
Chosen Option : D

Q.94 Which of the following Articles of the Indian Constitution deals with elections to the House of the People and Legislative Assemblies of States based on adult suffrage?

- Ans
- A. Article 324
 - B. Article 330
 - C. Article 328
 - D. Article 326

Question ID : 630680945413
Option 1 ID : 6306803706425
Option 2 ID : 6306803706428
Option 3 ID : 6306803706427
Option 4 ID : 6306803706426
Status : Answered
Chosen Option : C

Q.95 In which of the following kitchen ingredients is lactic acid present?

- Ans
- A. Spinach
 - B. Vinegar
 - C. Yogurt
 - D. Tomato

Question ID : 630680942469
Option 1 ID : 6306803694326
Option 2 ID : 6306803694324
Option 3 ID : 6306803694323
Option 4 ID : 6306803694325
Status : Answered
Chosen Option : C

Q.96 In 2024, which Indian football player retired from international football, whose farewell match, a World Cup Qualifier against Kuwait, was held at Kolkata's Salt Lake Stadium?

- Ans
- A. Sunil Chhetri
 - B. Gurpreet Singh Sandhu
 - C. Bhaichung Bhutia
 - D. Sandesh Jhingan

Question ID : 630680940488
Option 1 ID : 6306803686401
Option 2 ID : 6306803686403
Option 3 ID : 6306803686402
Option 4 ID : 6306803686404
Status : Answered
Chosen Option : A

Q.97 In June 2024, who succeeded General Manoj Pande as the 30th Chief of the Army Staff?

- Ans
- A. Rameshwar Pandey
 - B. Pramod Kumar Shukla
 - C. Rajeev Mohan Singh
 - D. Upendra Dwivedi

Question ID : 630680940514
Option 1 ID : 6306803686505
Option 2 ID : 6306803686507
Option 3 ID : 6306803686506
Option 4 ID : 6306803686508
Status : Answered
Chosen Option : A

Q.98 In which of the following years was the Harijan Sevak Sangh established?

- Ans
- A. 1922
 - B. 1928
 - C. 1932
 - D. 1924

Question ID : 630680962223
Option 1 ID : 6306803773161
Option 2 ID : 6306803773163
Option 3 ID : 6306803773164
Option 4 ID : 6306803773162
Status : Answered
Chosen Option : B

Q.99 Which of the following states has passed an amendment bill paving way for women to work in industries even at night on par with men in 2023?

- Ans A. Rajasthan
 B. Bihar
 C. Karnataka
 D. Telangana

Question ID : 630680946411
Option 1 ID : 6306803710365
Option 2 ID : 6306803710368
Option 3 ID : 6306803710366
Option 4 ID : 6306803710367
Status : Answered
Chosen Option : A

Q.100 The Chandipur beach is located in which Indian state?

- Ans A. Odisha
 B. Tamil Nadu
 C. West Bengal
 D. Andhra Pradesh

Question ID : 630680943335
Option 1 ID : 6306803697709
Option 2 ID : 6306803697711
Option 3 ID : 6306803697712
Option 4 ID : 6306803697710
Status : Answered
Chosen Option : B

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