

# Question Paper Preview

## Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

|                                         |                                                           |
|-----------------------------------------|-----------------------------------------------------------|
| Subject Name :                          | Technician B Chemical Identified for PCR<br>Unit Rasayani |
| Duration :                              | 90                                                        |
| Total Marks :                           | 80                                                        |
| Display Marks:                          | Yes                                                       |
| Share Answer Key With Delivery Engine : | Yes                                                       |
| Actual Answer Key :                     | Yes                                                       |
| Calculator :                            | None                                                      |
| Magnifying Glass Required? :            | No                                                        |
| Ruler Required? :                       | No                                                        |
| Eraser Required? :                      | No                                                        |
| Scratch Pad Required? :                 | No                                                        |
| Rough Sketch/Notepad Required? :        | No                                                        |
| Protractor Required? :                  | No                                                        |
| Show Watermark on Console? :            | Yes                                                       |
| Highlighter :                           | No                                                        |
| Auto Save on Console?                   | No                                                        |
| Change Font Color :                     | No                                                        |
| Change Background Color :               | No                                                        |
| Change Theme :                          | No                                                        |
| Help Button :                           | No                                                        |

|                     |    |
|---------------------|----|
| Show Reports :      | No |
| Show Progress Bar : | No |

## Technician B Chemical Identified for PCR Unit Rasayani

|                               |           |
|-------------------------------|-----------|
| Group Number :                | 1         |
| Group Id :                    | 40255768  |
| Group Maximum Duration :      | 0         |
| Group Minimum Duration :      | 90        |
| Show Attended Group? :        | No        |
| Edit Attended Group? :        | No        |
| Break time :                  | 0         |
| Group Marks :                 | 80        |
| Is this Group for Examiner? : | No        |
| Examiner permission :         | Cant View |
| Show Progress Bar? :          | No        |

## Curriculum Based

|                                                              |           |
|--------------------------------------------------------------|-----------|
| Section Id :                                                 | 40255768  |
| Section Number :                                             | 1         |
| Section type :                                               | Online    |
| Mandatory or Optional :                                      | Mandatory |
| Number of Questions :                                        | 80        |
| Number of Questions to be attempted :                        | 80        |
| Section Marks :                                              | 80        |
| Enable Mark as Answered Mark for Review and Clear Response : | Yes       |

Maximum Instruction Time : 0  
Sub-Section Number : 1  
Sub-Section Id : 40255768  
Question Shuffling Allowed : Yes  
Is Section Default? : null

Question Number : 1 Question Id : 4025575361 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Industries generating hazardous waste are classified as

- A. Brown
- B. Yellow
- C. Green
- D. Red

Options :

- ✖ A
- ✖ B
- ✖ C
- ✔ D

Question Number : 1 Question Id : 4025575361 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

उद्योगों से जनित्र जोखिम व्यर्थों को इससे वर्गीकृत किया जाता है

- A. भूरा
- B. पीला
- C. हरा
- D. लाल

Options :

✘ A

✘ B

✘ C

✔ D

Question Number : 2 Question Id : 4025575362 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which comes under mechanical occupational hazards?

- A. Noise
- B. Toxic
- C. Unskilled
- D. Unguarded machinery

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 2 Question Id : 4025575362 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

यांत्रिक व्यावसायिक जोखिम के अंतर्गत क्या आता है?

A. रव

B. विषैला

C. अकुशल

D. असुरक्षित मशीनें

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 3 Question Id : 4025575363 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

On which of the following types of surfaces should class A fire extinguisher not be used?

- A. Cloth
- B. Wood
- C. Paper
- D. Electric equipment

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 3 Question Id : 4025575363 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

निम्नलिखित में से किस प्रकार के सतहों पर श्रेणी ए के अग्निशामक का प्रयोग नहीं करना चाहिए?

- A. कपड़ा
- B. लकड़ी
- C. कागज
- D. विद्युत उपकरण

**Options :**

✖ A

✖ B

✖ C

✔ D

Question Number : 4 Question Id : 4025575364 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In 1984, Bhopal gas tragedy was caused due to leakage of?

- A. Methyl Isocyanate
- B. Sodium Monoxide
- C. Sodium Thiocyanate
- D. Potassium Isocyanate

Options :

✓ A

✗ B

✗ C

✗ D

Question Number : 4 Question Id : 4025575364 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

1984 में, इसके रिसाव के कारण भोपाल गैस त्रासदी हुई थी?

- A. मिथाइल आइसोनेट
- B. सोडियम मोनोऑक्साइड
- C. सोडियम थाईसाइनेट
- D. पोटेशियम आइसोनेट

**Options :**

✓ A

✗ B

✗ C

✗ D

**Question Number : 5 Question Id : 4025575365 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

At what decibels, sound starts becoming hazardous noise pollution?

A. Above 30

B. Above 80

C. Above 100

D. Above 120

**Options :**

✗ A

✓ B

✗ C

✗ D

**Question Number : 5 Question Id : 4025575365 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

किस डेसिबल पर, आवाज़ जोखिम भरा ध्वनि प्रदूषण बनना आरंभ हो जाती है?

- A. 30 से ऊपर
- B. 80 से ऊपर
- C. 100 से ऊपर
- D. 120 से ऊपर

**Options :**

✖ A

✔ B

✖ C

✖ D

**Question Number : 6 Question Id : 4025575366 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

How does photochemical smog form?

- A. The release of formaldehyde and radon inside buildings
- B. Reactions occur between secondary air pollutants and sunlight
- C. The release of primary air pollutants
- D. Interaction occurs between chemicals such as CFC and Ozone

**Options :**

✖ A

✓ B

✗ C

✗ D

Question Number : 6 Question Id : 4025575366 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

फोटोरासायनिक स्मॉग कैसे बनता है?

- A. भवनों के अंदर फार्मल्डीहाइड तथा रेडॉन की निर्मुक्ति
- B. द्वितीयक वायु प्रदूषकों तथा सूर्य के प्रकाश के बीच होनेवाली प्रतिक्रियाएं
- C. प्राथमिक वायु प्रदूषकों की निर्मुक्ति
- D. CFC तथा ओजोन जैसे रसायनों के बीच होनेवाली अंतर्क्रिया

Options :

✗ A

✓ B

✗ C

✗ D

Question Number : 7 Question Id : 4025575367 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The protocol which decided to completely phase out CFC is

- A. Catagena protocol
- B. Stockholm convection
- C. Montreal protocol
- D. Kyoto protocol

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 7 Question Id : 4025575367 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

CFC को पूर्ण रूप से हटाने का निर्णय किस प्रोटोकॉल के तहत किया गया?

- A. कैटाजिना प्रोटोकॉल
- B. स्टॉकहोम प्रोटोकॉल
- C. मॉन्ट्रियल प्रोटोकॉल
- D. क्योटो प्रोटोकॉल

Options :

✖ A

✖ B

✓ C

✗ D

Question Number : 8 Question Id : 4025575368 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Viscosity has the dimensions (where, M= Mass, L=Length and T=Time)?

A.  $ML^{-1}T^{-1}$

B.  $M^{-1}LT$

C.  $ML^{-1}T^{-3}$

D.  $MLT^{-3}$

Options :

✓ A

✗ B

✗ C

✗ D

Question Number : 8 Question Id : 4025575368 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

श्यानता का विमा ( जहां , M= द्रव्यमान (Mass), L= लंबाई (Length) तथा T=समय(Time))?

A.  $ML^{-1}T^{-1}$

B.  $M^{-1}LT$

C.  $ML^{-1}T^{-3}$

D.  $MLT^{-3}$

**Options :**

✓ A

✗ B

✗ C

✗ D

**Question Number : 9 Question Id : 4025575369 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

The formula for hydraulic diameter is \_\_\_\_\_ where A=cross section area, P=wetted perimeter, V=volume.

A.  $4A/P$

B.  $4AP$

C.  $4AV$

D.  $4V$

**Options :**

✓ A

✗ B

✗ C

✗ D

Question Number : 9 Question Id : 4025575369 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

जहाँ A= अनुप्रस्थ काट क्षेत्रफल, P=नम परिधि, V= आयतन है, तो द्रवचालित  
(हाइड्रोलिक) व्यास का सूत्र ..... होगा।

A.  $4A/P$

B.  $4AP$

C.  $4AV$

D.  $4V$

Options :

✓ A

✗ B

✗ C

✗ D

Question Number : 10 Question Id : 4025575370 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Free surface of a liquid tends to contract to the smallest possible area due to force of

- A. Surface tension
- B. Friction
- C. Cohesion
- D. Viscosity

**Options :**

✓ A

✗ B

✗ C

✗ D

**Question Number : 10 Question Id : 4025575370 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

एक द्रव का मुक्त पृष्ठ इस बल के कारण सबसे छोटे संभव क्षेत्रफल में सिकुड़ने लगता है

- A. पृष्ठ तनाव
- B. घर्षण
- C. संसंजन(कोहेसन)
- D. श्यानता (विस्कोसिटी)

**Options :**

✓ A

✗ B

✖ C

✖ D

**Question Number : 11 Question Id : 4025575371 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Which type of mechanical device is used to give energy to the liquid?

- A. Fluid power system
- B. Hydraulic system
- C. Pneumatic system
- D. Hydraulic pumps

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 11 Question Id : 4025575371 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

द्रव को ऊर्जा प्रदान करने के लिए किस प्रकार के यांत्रिक उपकरण का प्रयोग किया जाता है।

- A. तरल शक्ति प्रणाली
- B. द्रवचालित प्रणाली
- C. वातिल प्रणाली
- D. द्रवचालित पंप

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 12 Question Id : 4025575372 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

In which flow, the velocity of fluid is constant on every point at a specified time?

- A. Steady flow
- B. Rotational flow
- C. Non-Steady flow
- D. Turbulent flow

**Options :**

✔ A

✖ B

✖ C

✖ D

**Question Number : 12 Question Id : 4025575372 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

किस प्रवाह में, द्रव का वेग एक विशिष्ट समय पर प्रत्येक बिन्दु पर स्थिर होता है?

- A. स्थायी प्रवाह
- B. घूर्णनी प्रवाह
- C. अस्थायी प्रवाह
- D. विक्षुब्ध प्रवाह

**Options :**

✔ A

✖ B

✖ C

✖ D

**Question Number : 13 Question Id : 4025575373 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

In a manometer, the tube should contain a liquid whose specific gravity is \_\_\_\_\_ the specific gravity of the liquid whose pressure is to be measured?

- A. Greater than
- B. Half of
- C. Similar to
- D. Smaller than

**Options :**

✓ A

✗ B

✗ C

✗ D

**Question Number : 13 Question Id : 4025575373 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

एक मैनोमीटर में, नलिका में द्रव है जिसका विशिष्ट गुरुत्व दाब का मापन किए जाने वाले द्रव के विशिष्ट गुरुत्व से.....है?

- A. अधिक है
- B. आधा है
- C. समान है
- D. कम है

**Options :**

✓ A

✗ B

✗ C

✗ D

**Question Number : 14 Question Id : 4025575374 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

In a reciprocating pump, air vessels are used to

- A. Smoothen the flow
- B. Reduce suction head
- C. Increase delivery head
- D. Reduce acceleration head

**Options :**

✗ A

✗ B

✗ C

✓ D

**Question Number : 14 Question Id : 4025575374 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

एक व्युत्क्रमित पंप में, वायु पाद प्रयोग किए जाते हैं.....

- A. प्रवाह को सरल बनाने के लिए
- B. चूषण शीर्ष घटाने के लिए
- C. सुपुर्दगी शीर्ष बढ़ाने के लिए
- D. त्वरण शीर्ष घटाने के लिए

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 15 Question Id : 4025575375 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

The dynamic viscosity of a liquid is  $1.2 \times 10^{-4} \text{ Ns/m}^2$ , whereas the density is  $600 \text{ kg/m}^3$ .

The kinematic viscosity is  $\text{m}^2/\text{s}$  is

- A.  $72 \times 10^{-3}$
- B.  $20 \times 10^{-8}$
- C.  $7.2 \times 10^3$
- D.  $70 \times 10^6$

**Options :**

✖ A

✓ B

✗ C

✗ D

**Question Number : 15 Question Id : 4025575375 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

द्रव की गतिक श्यानता  $1.2 \times 10^{-4} \text{ N s/m}^2$  है, जबकि घनत्व  $600 \text{ kg/m}^3$  है। तो शुद्धगतिकी श्यानता  $\text{m}^2/\text{s}$  में क्या है

A.  $72 \times 10^{-3}$

B.  $20 \times 10^{-8}$

C.  $7.2 \times 10^3$

D.  $70 \times 10^6$

**Options :**

✗ A

✓ B

✗ C

✗ D

**Question Number : 16 Question Id : 4025575376 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

The specific speed ( $N_s$ ) of the pump is given by the expression

A.  $N_s = N \sqrt{Q} / H_m^{5/4}$

B.  $N_s = N \sqrt{P} / H_m^{3/4}$

C.  $N_s = N \sqrt{Q} / H_m^{3/4}$

D.  $N_s = N \sqrt{P} / H_m^{5/4}$

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 16 Question Id : 4025575376 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

इस व्यंजक द्वारा दी गई पंप की विशिष्ट गति ( $N_s$ ) ..... है।

A.  $N_s = N \sqrt{Q} / H_m^{5/4}$

B.  $N_s = N \sqrt{P} / H_m^{3/4}$

C.  $N_s = N \sqrt{Q} / H_m^{3/4}$

D.  $N_s = N \sqrt{P} / H_m^{5/4}$

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 17 Question Id : 4025575377 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Heat transfer by convection is described by

- A. Fick's law
- B. Fourier law
- C. Newtons law of cooling
- D. Stefan-Boltzmann law

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 17 Question Id : 4025575377 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

संवहन द्वारा ऊष्मा अंतरण .....द्वारा दर्शाया जाता है।

- A. फिक का नियम
- B. फूरिये का नियम
- C. न्यूटन का शीतलन नियम
- D. स्टेफन-बोल्ज़मन नियम

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 18 Question Id : 4025575378 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

-----paint has maximum absorption coefficient

- A. Black
- B. White lead
- C. Grey
- D. Light cream

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 18 Question Id : 4025575378 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

----- पेन्ट का अवशोषण गुणांक सबसे अधिक है

- A. काला
- B. सफेद सीसा
- C. धूसर
- D. हल्का क्रीम

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 19 Question Id : 4025575379 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Log Mean Temperature Difference (LMTD) in case of counter flow compared to parallel flow?

- A. More
- B. Less
- C. Same
- D. Very less

**Options :**

✓ A

✗ B

✗ C

✗ D

**Question Number : 19 Question Id : 4025575379 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

समानांतर प्रवाह की तुलना में काउंटर प्रवाह की स्थिति में लॉग औसत तापांतर (एलएमटीडी) होता है?

- A. अधिक
- B. कम
- C. समान
- D. बहुत कम

**Options :**

✓ A

✗ B

✖ C

✖ D

**Question Number : 20 Question Id : 4025575380 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Heat transfer takes place according to which of the following law?

- A. Newton's second law of motion
- B. First law of thermodynamics
- C. Newton's law of cooling
- D. Second law of thermodynamics

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 20 Question Id : 4025575380 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

निम्नलिखित में से किस नियम के अनुसार ऊष्मा अंतरण होता है?

- A. न्यूटन का गति का द्वितीय नियम
- B. ऊष्मागतिकीय का प्रथम नियम
- C. न्यूटन का शीतलन का नियम
- D. ऊष्मागतिकीय का द्वितीय नियम

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 21 Question Id : 4025575381 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The units of resistance to heat transfer are?

- A.  $\text{Jm}^{-2}\text{K}^{-1}$
- B.  $\text{Jm}^{-1}\text{K}^{-1}$
- C.  $\text{Wm}^{-2}\text{K}^{-1}$
- D.  $\text{W}^{-1}\text{m}^2\text{K}$

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 21 Question Id : 4025575381 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

ऊष्मा अंतरण के प्रतिरोध की इकाई है

A.  $\text{Jm}^{-2}\text{K}^{-1}$

B.  $\text{Jm}^{-1}\text{K}^{-1}$

C.  $\text{Wm}^{-2}\text{K}^{-1}$

D.  $\text{W}^{-1}\text{m}^2\text{K}$

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 22 Question Id : 4025575382 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Asbestos is \_\_\_\_\_ type of insulating material.

- A. Synthetic polymers-thermo setting
- B. Organic solid insulating material
- C. Inorganic solid insulating material
- D. Synthetic polymers-thermoplastic

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 22 Question Id : 4025575382 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

ऐस्बेस्टस ..... प्रकार की तापरोधी सामग्री है।

- A सांश्लेषिक बहुलक-ताप सेटिंग
- B जैविक ठोस तापरोधी सामग्री
- C अजैविक ठोस तापरोधी सामग्री
- D सांश्लेषिक बहुलक -ताप सुघट्य

Options :

✖ A

✖ B

✓ C

✗ D

Question Number : 23 Question Id : 4025575383 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Fourier's law of heat conduction is valid for

- A. One dimensional cases only
- B. Two dimensional cases only
- C. Three dimensional cases only
- D. Regular surfaces having non-uniform temperature

Options :

✓ A

✗ B

✗ C

✗ D

Question Number : 23 Question Id : 4025575383 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

फौरियर का ऊष्मा चालकता का नियम ---- के लिए सही है

- A. केवल एक आयामी मामलों
- B. केवल द्वि-आयामी मामलों
- C. केवल त्रि-आयामी मामलों
- D. असमान तापमान वाले नियमित पृष्ठों

Options :

✓ A

✗ B

✗ C

✗ D

Question Number : 24 Question Id : 4025575384 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Heat is mainly transferred by conduction, convection and radiation in?

- A. Insulated pipes carrying hot water
- B. Refrigerator freezer coil
- C. Boiler furnaces
- D. Condensation of steam in a condenser

Options :

✗ A

✖ B

✔ C

✖ D

**Question Number : 24 Question Id : 4025575384 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

ऊष्मा मुख्यतः चालक, संवहन एवं इनमें विकिरण द्वारा संप्रेषित होती है?

- A. गर्म जल से बहनेवाले रोधित पाइप
- B. प्रशीतित्र हिमकारित्र कॉइल
- C. बॉइलर फरनेसेस
- D. संधारित्र में भाप का संघनन

**Options :**

✖ A

✖ B

✔ C

✖ D

**Question Number : 25 Question Id : 4025575385 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

In thermal radiation for a black body (where,  $\epsilon$  is emissivity and  $\alpha$  is absorptivity)

A.  $\alpha = 1; \epsilon \neq 1$

B.  $\alpha \neq 1; \epsilon = 1$

C.  $\alpha \neq 1; \epsilon \neq 1$

D.  $\alpha = 1; \epsilon = 1$

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 25 Question Id : 4025575385 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक कृष्णिका के तापीय विकिरण में (जहां,  $\epsilon$  है उत्सर्जकता और  $\alpha$  है अवशोषकता)

A.  $\alpha = 1; \epsilon \neq 1$

B.  $\alpha \neq 1; \epsilon = 1$

C.  $\alpha \neq 1; \epsilon \neq 1$

D.  $\alpha = 1; \epsilon = 1$

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 26 Question Id : 4025575386 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Colloidal mills are used for -----grinding.

- A. Coarse
- B. Fine
- C. Intermediate
- D. Ultrafine

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 26 Question Id : 4025575386 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

कोलाइडल मिल्स का उपयोग \_\_\_\_\_ पिसाई के लिए होता है

- A. स्थूल
- B. सूक्ष्म
- C. मध्यवर्ती
- D. अतिसूक्ष्म

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 27 Question Id : 4025575387 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Residue is the term given to the solid obtained from

- A. Crystallization
- B. Filtration
- C. Chromatography
- D. None of these

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 27 Question Id : 4025575387 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

----- द्वारा प्राप्त ठोस को अवशिष्ट कहा जाता है।

- A. क्रस्टलीकरण
- B. निस्पंदन
- C. क्रोमेटोग्राफी
- D. इनमें से कोई नहीं

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 28 Question Id : 4025575388 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A rotameter works on the principle of variable

- A. Pressure
- B. Length
- C. Area
- D. Resistance

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 28 Question Id : 4025575388 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक वक्र रेखामापी ..... के परिवर्तनीय आधार पर कार्य करता है।

- A. दाब
- B. लंबाई
- C. क्षेत्र
- D. प्रतिरोध

Options :

✖ A

✖ B

✔ C

✖ D

**Question Number : 29 Question Id : 4025575389 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Which of the following process is used to separate insoluble particles from liquids?

A. Extraction

B. Filtration

C. Drying

D. Sieving

**Options :**

✖ A

✔ B

✖ C

✖ D

**Question Number : 29 Question Id : 4025575389 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

द्रव से अविलयित कणों को अलग करने के लिए निम्नलिखित में से किस प्रक्रिया का प्रयोग किया जाता है?

- A. निष्कर्षण
- B. निस्पंदन
- C. शुष्कन
- D. छानन

**Options :**

✖ A

✔ B

✖ C

✖ D

**Question Number : 30 Question Id : 4025575390 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Which one of the following filter is used for filtration of large quantities of free filtering material?

- A. Leaf filter
- B. Rotary drum filter
- C. Filter press
- D. Plate and frame filter

**Options :**

✖ A

✔ B

✖ C

✖ D

**Question Number : 30 Question Id : 4025575390 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

फ्री फिल्टरिंग सामग्री की बड़ी मात्रा का फिल्ट्रेशन करने के लिए निम्नलिखित में से कौन सा फिल्टर प्रयोग किया जाता है?

- A. लीफ फिल्टर
- B. रोटेरी ड्रम फिल्टर
- C. फिल्टर प्रेस
- D. प्लेट एवं फ्रेम फिल्टर

**Options :**

✖ A

✔ B

✖ C

✖ D

**Question Number : 31 Question Id : 4025575391 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Mixer used for rubber compounding is

- A. Mixer extruder
- B. Banbury internal mixer
- C. Muller mixer
- D. Pug mill

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 31 Question Id : 4025575391 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

रबर कंपाउंडिंग के लिए प्रयुक्त मिश्रक है

- A. मिश्रक एक्सट्रूडर
- B. बैंबुरी आंतरिक मिश्रक
- C. मल्लर मिश्रक
- D. पग मिल

Options :

✖ A

✓ B

✗ C

✗ D

Question Number : 32 Question Id : 4025575392 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In a venturi meter, the divergent cone is kept

- A. Shorter than convergent cone
- B. Equal to convergent cone
- C. Longer than convergent cone
- D. Above the convergent cone

Options :

✗ A

✗ B

✓ C

✗ D

Question Number : 32 Question Id : 4025575392 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

वेंच्युरी मीटर में अपसारी शंकु

- A. अभिसारी शंकु से छोटा होता है
- B. अभिसारी शंकु के बराबर होता है
- C. अभिसारी शंकु से लंबा होता है
- D. अभिसारी शंकु के ऊपर होता है

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 33 Question Id : 4025575393 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Power required to drive a centrifugal pump is directly proportional to ----- of its  
impeller.

- A. D
- B.  $D^2$
- C.  $D^3$
- D.  $D^4$

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 33 Question Id : 4025575393 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

अपकेंद्री पंप के चालन हेतु आवश्यक शक्ति इसके प्रणोदक के ----- के समानुपाती होती है।

A. D

B.  $D^2$

C.  $D^3$

D.  $D^4$

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 34 Question Id : 4025575394 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

By adding solute in the solvent?

- A. The boiling point of solution decreases
- B. The freezing point of solution increases
- C. The vapor pressure of solution decreases
- D. The boiling point of solution remains constant

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 34 Question Id : 4025575394 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

विलायक में विलेय जोड़ने पर?

- A. विलयन का क्वथनांक घटता है
- B. विलयन का हिमांक बढ़ता है
- C. विलयन का वाष्प दाब घटता है
- D. विलयन का क्वथनांक स्थिर रहता है

Options :

✖ A

✖ B

✓ C

✗ D

Question Number : 35 Question Id : 4025575395 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

----- is an example of transition fit.

- A. Running fit
- B. Expansion fit
- C. Wringing fit
- D. Shrinkage fit

Options :

✗ A

✗ B

✓ C

✗ D

Question Number : 35 Question Id : 4025575395 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

----- संक्रमण अन्वायोजन का एक उदाहरण है।

- A. चालन अन्वायोजन
- B. प्रसार अन्वायोजन
- C. संसंजन अन्वायोजन
- D. संकुचन अन्वायोजन

Options :

✗ A

✗ B

✓ C

✗ D

Question Number : 36 Question Id : 4025575396 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following is used to block the pipe at one end?

- A. Plug
- B. Reducer
- C. Union
- D. Coupling

Options :

✓ A

✖ B

✖ C

✖ D

**Question Number : 36 Question Id : 4025575396 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

एक छोर पर पाइप को बंद (block) करने के लिए निम्नलिखित में से किसका प्रयोग किया जाता है?

- A. प्लग
- B. रिड्यूसर
- C. यूनियन
- D. कपलिंग

**Options :**

✔ A

✖ B

✖ C

✖ D

**Question Number : 37 Question Id : 4025575397 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Which is used to connect two pipes of different diameters?

- A. Elbow
- B. Plug
- C. Caps
- D. Reducer coupling

Options :

✘ A

✘ B

✘ C

✔ D

Question Number : 37 Question Id : 4025575397 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

भिन्न व्यास के दो पाइपों को जोड़ने के लिए किसका प्रयोग किया जाता है।

- A एल्बो
- B प्लग
- C कैप्स
- D रिड्यूसर कपलिंग

Options :

✘ A

✘ B

✘ C

✓ D

**Question Number : 38 Question Id : 4025575398 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

What is the velocity ratio (driver: driven) of two gears if the driver gear has 15 teeth and driven gear has 5 teeth?

A. 1:3

B. 2:1

C. 3:1

D. 4:3

**Options :**

✗ A

✗ B

✓ C

✗ D

**Question Number : 38 Question Id : 4025575398 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

यदि ड्राइवर गियर में 15 दांत हैं और ड्राइवेन गियर में 5 दांत हैं तो दो गियरों का वेग अनुपात (ड्राइवर: ड्राइवेन) क्या है?

- A. 1:3
- B. 2:1
- C. 3:1
- D. 4:3

**Options :**

✖ A

✖ B

✔ C

✖ D

Question Number : 39 Question Id : 4025575399 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Following is not a part of micrometer

- A. Thimble
- B. Ratchet stop screw
- C. Beam
- D. Anvil

**Options :**

✖ A

✖ B

✓ C

✗ D

Question Number : 39 Question Id : 4025575399 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्न में से यह माइक्रोमीटर का भाग नहीं है

- A. थिम्बल
- B. रैचेट स्टॉप पेंच
- C. बीम
- D. अन्विल

Options :

✗ A

✗ B

✓ C

✗ D

Question Number : 40 Question Id : 4025575400 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The accuracy of micrometer, calipers, dial indicators can be checked by a

- A. Feeler gauge
- B. Slip gauge
- C. Ring gauge
- D. Plug gauge

**Options :**

✖ A

✔ B

✖ C

✖ D

**Question Number : 40 Question Id : 4025575400 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

माइक्रोमीटर, कैलिपर, डायल इंडीकेटर की सटीकता की जांच.....के द्वारा की जा सकती है

- A. फीलर गेज
- B. स्लिप गेज
- C. रिंग गेज
- D. प्लग गेज

**Options :**

✖ A

✔ B

✖ C

✖ D

Question Number : 41 Question Id : 4025575401 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Axial thrust is not there in which of the following gears?

A. Double helical gear

B. Bevel gear

C. Spiral gear

D. Single helical gear

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 41 Question Id : 4025575401 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित में से किस गियर में अक्षीय प्रणोद नहीं होता है?

- A. द्वि हेलिकल गियर
- B. बेवल गियर
- C. सर्पिल गियर
- D. एकल हेलिकल गियर

Options :

✓ A

✗ B

✗ C

✗ D

Question Number : 42 Question Id : 4025575402 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following metals is called metallic glass ?

- A. Lead
- B. Molybdenum
- C. Tantalum
- D. Titanium

Note: For this question, discrepancy is found in

question/answer. Full Marks is being awarded to all candidates.

**Options :**

- A
- B
- C
- D

**Question Number : 42 Question Id : 4025575402 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

निम्न में से कौन सी धातु धात्विक कांच कहलाता है?

- A. सीसा
- B. मॉलिब्डेनम
- C. टैंटालम
- D. टाइटेनियम

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

**Options :**

- A
- B

C

D

Question Number : 43 Question Id : 4025575403 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Raoult's law applies to

- A. All liquid solutions
- B. Only non-ideal solution
- C. Nonvolatile solute
- D. The solvents

Options :

✘ A

✘ B

✘ C

✔ D

Question Number : 43 Question Id : 4025575403 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

राउल्ट का नियम --- पर लागू होता है

- A. सभी द्रव विलयनों
- B. केवल गैर-आदर्श विलयनों
- C. अवाष्पशील विलेय
- D. विलायकों

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 44 Question Id : 4025575404 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Dry bulb temperature of the gas is ----- the wet bulb temperature

- A. Less than
- B. More than
- C. Equal to
- D. None of these

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 44 Question Id : 4025575404 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

गैस का शुष्क बल्ब तापमान आर्द्र बल्ब तापमान से.....होता है।

A. कम

B. अधिक

C. समान

D. उपरोक्त में से कोई नहीं

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 45 Question Id : 4025575405 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Physical adsorption is

- A. An irreversible phenomenon
- B. A reversible phenomenon
- C. Involves covalent chemical bonds
- D. None of the above

**Options :**

✖ A

✔ B

✖ C

✖ D

**Question Number : 45 Question Id : 4025575405 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

भौतिक अधिशोषण है

- A. एक अप्रतिक्रम्य घटना
- B. एक प्रतिक्रम्य घटना
- C. सहसंयोजक रसायनिक बॉण्ड को सम्मिलित करना
- D. उपरोक्त में से कोई नहीं

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 46 Question Id : 4025575406 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

During humidification process the dry bulb temperature\_\_\_\_\_

- A. Decreases
- B. Increases
- C. Remains same
- D. Tends to zero

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 46 Question Id : 4025575406 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

आर्द्रीकरण की प्रक्रिया के दौरान शुष्क बल्ब का तापमान ----- है

A. घटता

B. बढ़ता

C. एकसमान रहता

D. शून्य की ओर जाता

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 47 Question Id : 4025575407 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

**Correct Marks : 1 Wrong Marks : 0.33**

Relative volatility is the measure of separation by?

- A. Evaporation
- B. Cooling
- C. Distillation
- D. Crystallization

**Options :**

✖ A

✖ B

✔ C

✖ D

**Question Number : 47 Question Id : 4025575407 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

इसके द्वारा सापेक्ष वाष्पशीलता, पृथक्करण का मापन है?

- A. वाष्पीकरण
- B. शीतलन
- C. आसवन
- D. क्रिस्टलीकरण

**Options :**

✖ A

✖ B

✓ C

✗ D

**Question Number : 48 Question Id : 4025575408 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

What is the driving force for evaporation to take place?

- A. Difference in partial pressure
- B. Difference if temperature
- C. Difference in pressure
- D. Difference in concentration

**Options :**

✓ A

✗ B

✗ C

✗ D

**Question Number : 48 Question Id : 4025575408 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

वाष्पीकरण होने के लिए चालन बल क्या होता है?

- A. आंशिक दाब में अंतर
- B. तापमान में अंतर
- C. दाब में अंतर
- D. सांद्रण में अंतर

**Options :**

✓ A

✗ B

✗ C

✗ D

Question Number : 49 Question Id : 4025575409 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following is Azeotropic mixture?

- A. Air-Water
- B. Air-Alcohol
- C. Acetic acid - Water
- D. Acetic acid - Alcohol

**Options :**

✗ A

✗ B

✓ C

✗ D

Question Number : 49 Question Id : 4025575409 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्न में से स्थिरकथनीय (ऐज़ियोट्रोपिक) मिश्रण कौन सा है?

- A. वायु-जल
- B. वायु-ऐल्कोहॉल
- C. ऐसीटिक अम्ल – जल
- D. ऐसीटिक अम्ल - ऐल्कोहॉल

Options :

✘ A

✘ B

✔ C

✘ D

Question Number : 50 Question Id : 4025575410 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Total reflux in a distillation operation depends on

- A. Condenser load
- B. Reboiler load
- C. Number of plates
- D. All of these

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 50 Question Id : 4025575410 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक आसवन प्रचालन में कुल प्रतिवर्त किस पर निर्भर करता है

- A. संघनित्र भार
- B. रिबॉयलर भार
- C. प्लेटों की संख्या
- D. उपरोक्त सभी

Options :

✖ A

✖ B

✓ C

✗ D

**Question Number : 51 Question Id : 4025575411 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Which of the following is called the particulate pollutants?

- A. Ozone
- B. Ethylene
- C. Fly ash
- D. Radon

**Options :**

✗ A

✗ B

✓ C

✗ D

**Question Number : 51 Question Id : 4025575411 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

निम्नलिखित में से किसको पार्टिक्युलेट प्रदूषक कहते हैं?

- A. ओजोन
- B. ईथीलेन
- C. फ्लाई ऐश
- D. रेडन

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 52 Question Id : 4025575412 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following statements are true about CNG- Compressed Natural Gas?

- A. Harmful fuel
- B. Polluting fuel
- C. Clean fuel
- D. All of the above

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 52 Question Id : 4025575412 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित में से कौन सा कथन सीएनजी-संपीडित प्राकृतिक गैस के बारे में सही है।

- A. नुकसानदायक ईंधन
- B. प्रदूषक ईंधन
- C. स्वच्छ ईंधन
- D. उपरोक्त सभी

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 53 Question Id : 4025575413 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Main constituent of natural rubber is

- A. Polystyrene
- B. Polyisoprene
- C. Polybutadiene
- D. polychloroprene

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 53 Question Id : 4025575413 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्राकृतिक रबड़ का मुख्य घटक क्या है?

- A. पॉलिस्टाइरीन
- B. पॉलिआइसोप्रीन
- C. पॉलिब्यूटाडीन
- D. पॉलिक्लोरोप्रीन

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 54 Question Id : 4025575414 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following is not separated by distillation?

- A. Chloroform and aniline
- B. Milk and water
- C. Acetone and water
- D. Impurities in seawater

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 54 Question Id : 4025575414 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

आसवन द्वारा निम्न में से किसे अलग नहीं किया जा सकता है?

- A. क्लोरोफॉर्म एवं ऐनिलीन
- B. दूध तथा पानी
- C. ऐसिटोन एवं पानी
- D. सागर के जल से अशुद्धियां

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 55 Question Id : 4025575415 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following statements is true about SMOG?

- A. SMOG is derived from the fog
- B. SMOG is derived from water vapour
- C. SMOG is derived from smoke
- D. SMOG is derived from fog and smoke

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 55 Question Id : 4025575415 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

स्मॉग के बारे में निम्नलिखित में से कौन सा कथन सही है।

A कोहरे से स्मॉग निकलता है।

B जल वाष्प से स्मॉग निकलता है।

C धुँए से स्मॉग निकलता है।

D कोहरे एवं धुँए से स्मॉग निकलता है।

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 56 Question Id : 4025575416 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Methyl orange indicator turns

- A. Orange yellow in alkaline medium
- B. Orange yellow in acid medium
- C. Colorless in acidic medium
- D. Colorless in basic medium

Options :

✓ A

✗ B

✗ C

✗ D

Question Number : 56 Question Id : 4025575416 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

मिथाइल ऑरेंज संकेतक बदलता है

- A. क्षारीय (अल्कालाइन) माध्यम में नारंगी पीला (ऑरेंज येल्लो)
- B. अम्ल (एसिड) माध्यम में नारंगी पीला (ऑरेंज येल्लो)
- C. अम्लीय (एसिडिक) माध्यम में रंगहीन
- D. क्षार (बेसिक) माध्यम में रंगहीन

Options :

✓ A

✗ B

✖ C

✖ D

Question Number : 57 Question Id : 4025575417 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Fractional distillation is a process of separation of

- A. One miscible and one miscible liquid
- B. Two miscible liquids
- C. Two immiscible liquids
- D. None of the above

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 57 Question Id : 4025575417 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

आंशिक आसवन ----- के पृथक्करण की प्रक्रिया है

- A. एक मिश्रणीय और एक मिश्रणीय द्रव
- B. दो मिश्रणीय द्रव
- C. दो अमिश्रणीय द्रव
- D. उपरोक्त में से कोई नहीं

**Options :**

✖ A

✔ B

✖ C

✖ D

**Question Number : 58 Question Id : 4025575418 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Mixture of o-nitrophenol and p-nitrophenol can be separated by

- A. Crystallisation
- B. Sublimation
- C. Chromatography
- D. Steam distillation

**Options :**

✖ A

✖ B

✖ C

✔ D

Question Number : 58 Question Id : 4025575418 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

ओ -नाइट्रोफेनल एवं पी-नाइट्रोफेनल के मिश्रण को किसके द्वारा पृथक किया  
जाता है।

A क्रिस्टलीकरण

B ऊर्ध्व पातन

C क्रोमेटोग्राफी

D भाप आसवन

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 59 Question Id : 4025575419 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following is a method of heat transfer?

- A. Convection
- B. Radiation
- C. Conduction
- D. All of the above

Options :

✘ A

✘ B

✘ C

✔ D

Question Number : 59 Question Id : 4025575419 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्न में से ऊष्मा अंतरण की पद्धति कौन सी है।

- A. संवहन
- B. विकिरण
- C. चालन
- D. उपरोक्त सभी

Options :

✘ A

✘ B

✖ C

✔ D

Question Number : 60 Question Id : 4025575420 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Half of 1 percent written in decimal is

A. 5

B. 0.5

C. 0.05

D. 0.005

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 60 Question Id : 4025575420 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

1 प्रतिशत के आधे को दशमलव में लिखेंगे

- A. 5
- B. 0.5
- C. 0.05
- D. 0.005

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 61 Question Id : 4025575421 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

1 micron is equal to?

- A.  $10^{-4}$  m
- B.  $10^{-6}$  m
- C.  $10^{-8}$  m
- D.  $10^{-12}$  m

Options :

✖ A

✓ B

✗ C

✗ D

Question Number : 61 Question Id : 4025575421 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

1 माइक्रोन बराबर होता है?

A.  $10^{-4}$  मी.

B.  $10^{-6}$  मी.

C.  $10^{-8}$  मी.

D.  $10^{-12}$  मी.

Options :

✗ A

✓ B

✗ C

✗ D

Question Number : 62 Question Id : 4025575422 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

1 km/h = ? m/s

A. 5/18

B. 3/50

C. 18/5

D. 50/3

Options :

✓ A

✗ B

✗ C

✗ D

Question Number : 62 Question Id : 4025575422 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

1 कि.मी./घंटा = ? मी./सेकेंड

A. 5/18

B. 3/50

C. 18/5

D. 50/3

Options :

✓ A

✖ B

✖ C

✖ D

Question Number : 63 Question Id : 4025575423 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A polynomial of degree two is called

- A. a linear polynomial
- B. a quadratic polynomial
- C. a cubic polynomial
- D. a biquadratic polynomial

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 63 Question Id : 4025575423 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

डिग्री दो का बहुपद (पॉलिनोमियल) कहलाता है

- A. एक रेखीय बहुपद
- B. एक द्विघात बहुपद
- C. एक घनीय बहुपद
- D. एक द्विचतुर्घात बहुपद

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 64 Question Id : 4025575424 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Find the radius of a circle whose circumference is given as 95 cm ( $\pi=3.14$ )

- A. 18.32 cm
- B. 14.91 cm
- C. 15.13 cm
- D. 15.41 cm

Options :

✖ A

✖ B

✔ C

✖ D

**Question Number : 64 Question Id : 4025575424 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

एक वृत्त की त्रिज्या ज्ञात करें जिसकी परिधि 95 सेमी. दी गई है ( $\pi=3.14$ )

A. 18.32 से.मी.

B. 14.91 से.मी.

C. 15.13 से.मी.

D. 15.41 से.मी.

**Options :**

✖ A

✖ B

✔ C

✖ D

**Question Number : 65 Question Id : 4025575425 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Sum of squares of two numbers is 145. If square root of one number is 3, find the other number?

A. 136

B. 9

C. 64

D. 8

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 65 Question Id : 4025575425 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

दो संख्याओं का वर्ग 145 है। यदि एक संख्या का वर्गमूल 3 है तो अन्य संख्या ज्ञात करें?

A. 136

B. 9

C. 64

D. 8

**Options :**

✖ A

✖ B

✖ C

✔ D

Question Number : 66 Question Id : 4025575426 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

If  $(\sin \phi \times \cos \phi) = \frac{1}{2}$ , then  $\phi = ?$

A.  $0^\circ$

B.  $30^\circ$

C.  $45^\circ$

D.  $60^\circ$

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 66 Question Id : 4025575426 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

यदि  $(\sin \Phi \times \cos \Phi) = 1/2$ , तो  $\Phi = ?$

- A.  $0^\circ$
- B.  $30^\circ$
- C.  $45^\circ$
- D.  $60^\circ$

**Options :**

✖ A

✖ B

✔ C

✖ D

**Question Number : 67 Question Id : 4025575427 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

A train crosses a platform of length 300 m in 18 s. What is the average speed of the train?

- A. 60 Km/hr.
- B. 30 Km/hr.
- C. 54 Km/hr.
- D. 6 Km/hr.

**Options :**

✔ A

✖ B

✖ C

✖ D

**Question Number : 67 Question Id : 4025575427 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

एक ट्रेन 300 मी. लंबे प्लेटफॉर्म को 18 से. में पार करती है। ट्रेन की औसत गति कितनी है ?

- A. 60 कि. मी./घंटा
- B. 30 कि. मी./घंटा
- C. 54 कि. मी./घंटा
- D. 6 कि. मी./घंटा

**Options :**

✔ A

✖ B

✖ C

✖ D

**Question Number : 68 Question Id : 4025575428 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Area of a triangle whose sides are 5 cm, 12 cm and 13 cm

- A.  $25 \text{ cm}^2$
- B.  $30 \text{ cm}^2$
- C.  $32.5 \text{ cm}^2$
- D.  $75 \text{ cm}^2$

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 68 Question Id : 4025575428 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक त्रिभुज जिसकी भुजाएं 5 cm, 12 cm तथा 13 cm हैं, का क्षेत्रफल है

- A.  $25 \text{ cm}^2$
- B.  $30 \text{ cm}^2$
- C.  $32.5 \text{ cm}^2$
- D.  $75 \text{ cm}^2$

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 69 Question Id : 4025575429 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

An object with a specific mass will weigh

- A. Zero on earth
- B. Less on earth than on the moon
- C. More on earth than on the moon
- D. Equal on the earth and the moon

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 69 Question Id : 4025575429 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

विशिष्ट भार युक्त किसी वस्तु का वजन होगा

- A. पृथ्वी पर शून्य
- B. चन्द्रमा की अपेक्षा पृथ्वी पर कम
- C. चन्द्रमा की अपेक्षा पृथ्वी पर अधिक
- D. पृथ्वी तथा चन्द्रमा पर एक समान

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 70 Question Id : 4025575430 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Bonds present in sodium chloride is

- A. Conjugate bond
- B. Ionic bond
- C. Covalent bond
- D. None of the above

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 70 Question Id : 4025575430 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

सोडियम क्लोराइड में उपलब्ध आबंध .... है।

- A. संयुग्मी आबंध
- B. आयनिक आबंध
- C. सहसंयोजक आबंध
- D. उपर्युक्त से कोई भी नहीं

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 71 Question Id : 4025575431 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Functional group of primary amine is

- A. -OH
- B. -COOH
- C. -CHO
- D. -NH<sub>2</sub>

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 71 Question Id : 4025575431 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्राइमरी ऐमीन का फलन (फंक्शनल) ग्रुप ..... है।

- A. -OH
- B. -COOH
- C. -CHO
- D. -NH<sub>2</sub>

Options :

✖ A

✖ B

✖ C

✓ D

Question Number : 72 Question Id : 4025575432 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The boiling of water inside the pressure cooker is

- A. 0 °C
- B. 100 °C
- C. Above 100 °C
- D. -50 °C

Options :

✗ A

✗ B

✓ C

✗ D

Question Number : 72 Question Id : 4025575432 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्रेसर कुकर के अंदर जल कितने सेल्सियस पर उबलता है।

- A.  $0^{\circ}$  से.
- B.  $100^{\circ}$  से.
- C.  $100^{\circ}$  से. से ऊपर
- D.  $-50^{\circ}$  से.

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 73 Question Id : 4025575433 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

How much kinetic energy does a 160g cricket ball have when it is thrown at a speed of

22 m/s?

- A. 176 J
- B. 1.76 J
- C. 3872 J
- D. 38.72 J

Options :

✖ A

✖ B

✖ C

✔ D

**Question Number : 73 Question Id : 4025575433 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

22 m/s की गति में 160 ग्रा. की क्रिकेट बॉल को फेंकने पर उसकी गतिक ऊर्जा  
..... होती है।

A. 176 J

B. 1.76 J

C. 3872 J

D. 38.72 J

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 74 Question Id : 4025575434 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

Correct Marks : 1 Wrong Marks : 0.33

$C_3H_8$  belongs to the homologous series of

- A. Alkynes
- B. Alkenes
- C. Alkanes
- D. Cycloalkanes

Options :

✗ A

✗ B

✓ C

✗ D

Question Number : 74 Question Id : 4025575434 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

$C_3H_8$  किस समजातीय वर्ग से संबंधित है

- A. एल्कीनेस
- B. एल्केनेस
- C. एल्कानेस
- D. साइक्लोलकानेस

Options :

✗ A

✖ B

✔ C

✖ D

**Question Number : 75 Question Id : 4025575435 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

The relative motion between the adjacent layers of a fluid in motion is called viscous force. Which of the following suits the best in the sentence?

- A. Effects at some conditions
- B. Never effects
- C. Opposes
- D. Facilitates

**Options :**

✖ A

✖ B

✔ C

✖ D

**Question Number : 75 Question Id : 4025575435 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

गतिशील द्रव की समायोजित परतों के बीच सापेक्ष गति श्यानता बल कहलाती है। वाक्य में निम्न में से कौन सा कथन उपयुक्त लगता है?

- A. कुछ स्थितियों पर प्रभाव
- B. कोई प्रभाव नहीं
- C. विपरीतार्थक
- D. सुविधा उपलब्ध कराता

**Options :**

✖ A

✖ B

✔ C

✖ D

**Question Number : 76 Question Id : 4025575436 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

Which of the following will undergo addition reactions?

- A.  $\text{CH}_4$
- B.  $\text{C}_3\text{H}_8$
- C.  $\text{C}_2\text{H}_6$
- D.  $\text{C}_2\text{H}_4$

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 76 Question Id : 4025575436 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

निम्नलिखित में से कौन-सा योगज अभिक्रिया (अडिशन रिएक्शन) की अवस्था से गुज़रेगी ?

A.  $\text{CH}_4$

B.  $\text{C}_3\text{H}_8$

C.  $\text{C}_2\text{H}_6$

D.  $\text{C}_2\text{H}_4$

**Options :**

✖ A

✖ B

✖ C

✔ D

**Question Number : 77 Question Id : 4025575437 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

The wave length band of visible light is in the range

- A. 100-300 nm
- B. 350-700 nm
- C. 700-900 nm
- D. 80-100 nm

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 77 Question Id : 4025575437 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

दृश्य प्रकाश की तरंग दैर्घ्य का परास क्या है?

- A. 100-300 nm
- B. 350-700 nm
- C. 700-900 nm
- D. 80-100 nm

Options :

✖ A

✔ B

✖ C

✖ D

**Question Number : 78 Question Id : 4025575438 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

A current of 1A is drawn by a filament of an electric bulb. Number of electrons passing through a cross-section of filament in 16 seconds would be roughly

A.  $10^{20}$

B.  $10^{16}$

C.  $10^{18}$

D.  $10^{23}$

**Options :**

✔ A

✖ B

✖ C

✖ D

**Question Number : 78 Question Id : 4025575438 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

एक इलेक्ट्रिक बल्ब के फिलामेंट द्वारा 1A धारा ली जाती है। 16 सेकेण्डों में फिलामेंट के अनुप्रस्थ काट द्वारा गुजरने वाले इलेक्ट्रॉनों की संख्या लगभग होगी

- A.  $10^{20}$
- B.  $10^{16}$
- C.  $10^{18}$
- D.  $10^{23}$

**Options :**

✓ A

✗ B

✗ C

✗ D

**Question Number : 79 Question Id : 4025575439 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

What is viscosity?

- A. Resistance to flow of object
- B. Resistance to flow of air
- C. Resistance to flow of fluid
- D. Resistance to flow of heat

**Options :**

✗ A

✖ B

✔ C

✖ D

Question Number : 79 Question Id : 4025575439 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

श्यानता क्या होती है?

- A. वस्तु के प्रवाह में प्रतिरोध
- B. वायु के प्रवाह में प्रतिरोध
- C. तरल के प्रवाह में प्रतिरोध
- D. ऊष्मा के प्रवाह में प्रतिरोध

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 80 Question Id : 4025575440 Question Type : MCQ Option Shuffling : No Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Evaporators in which pumps are used to force the evaporating liquid through the tubes are called

- A. Horizontal tube evaporator
- B. Vertical tube evaporator
- C. Vacuum pan evaporator
- D. Forced circulation evaporator

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

**Options :**

- A
- B
- C
- D

**Question Number : 80 Question Id : 4025575440 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.33**

वाष्पक जिसमें पंप का इस्तेमाल नलिकाओं द्वारा द्रव के वाष्पन को बल दिया जाता है, कहलाता है

- A. क्षैतिज नली वाष्पक
- B. ऊर्ध्वाधर नली वाष्पक
- C. वात पैन वाष्पक
- D. बलित परिचालन वाष्पक

Note: For this question, discrepancy is found in question/answer. Full Marks is being awarded to all candidates.

**Options :**

- A
- B
- C
- D