



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARD

सी ई एन नं. - 03/2025 - CEN No. - 03/2025



Registration Number	
Roll Number	
Candidate Name	
Community	OBC NCL
Test Centre Name	Kedarnath Technologies
Test Date	13/03/2026
Test Time	12:45 PM - 2:15 PM
Post Name	PHARMACIST (ENTRY GRADE)
Application Photograph	
Exam Day Photograph	

* Note
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.
No marks will be deducted for questions left unanswered

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : General Ability

Q.1 Which branch of chemistry deals with the study of elements and compounds that do not contain carbon-hydrogen bonds?

- Ans ☒ 1. Inorganic chemistry
- ☒ 2. Physical chemistry
- ☒ 3. Biochemistry
- ☒ 4. Organic chemistry

Question Type : MCQ

Question ID : 4410091566036

Option 1 ID : 4410096185569

Option 2 ID : 4410096185571

Option 3 ID : 4410096185570

Option 4 ID : 4410096185568

Status : Answered

Chosen Option : 2

Q.2 By applying Newton's law of gravitation to a falling object at the surface of the Earth, the acceleration due to gravity is given by $g = GM / R^2$. The symbol M represents the mass of the:

- Ans ☒ 1. Sun
- ☒ 2. Moon
- ☒ 3. Earth
- ☒ 4. Falling object

Question Type : MCQ

Question ID : 4410091646521

Option 1 ID : 4410096502327

Option 2 ID : 4410096502328

Option 3 ID : 4410096502326

Option 4 ID : 4410096502325

Status : Answered

Chosen Option : 4

Q.3 All 69 people are standing in a row facing north. Tanay is 31st from the right end, while Lomasi is 28th from the left end. How many people are there between Tanay and Lomasi?

- Ans ☒ 1. 12
- ☒ 2. 10
- ☒ 3. 24
- ☒ 4. 25

Question Type : MCQ

Question ID : 4410091608427

Option 1 ID : 4410096352620

Option 2 ID : 4410096352621

Option 3 ID : 4410096352622

Option 4 ID : 4410096352623

Status : Answered

Chosen Option : 2

Q.4 Amit invested equal amounts at simple interest and compound interest, compounded annually, for 2 years at the same rate of 8% per annum. In the end, he found a difference of ₹52 between the two interests earned. What was the amount (in ₹) invested in each case?

- Ans
1. 8475

2. 7225

3. 7375

4. 8125

Question Type : MCQ

Question ID : 441009572282

Option 1 ID : 4410092244251

Option 2 ID : 4410092244250

Option 3 ID : 4410092244249

Option 4 ID : 4410092244248

Status : Not Answered

Chosen Option : --

Q.5 Which Amendment Act made elementary education a fundamental right under Article 21A, mandating free and compulsory education for all children aged 6 to 14 years?

- Ans
1. 73rd Amendment

2. 86th Amendment

3. 101st Amendment

4. 104th Amendment

Question Type : MCQ

Question ID : 4410091576161

Option 1 ID : 4410096225435

Option 2 ID : 4410096225434

Option 3 ID : 4410096225436

Option 4 ID : 4410096225437

Status : Answered

Chosen Option : 1

Q.6 In a circuit, if the resistance is halved and the voltage remains the same, how does the power change?

- Ans
1. Power doubles

2. Power remains the same

3. Power halves

4. Power quadruples

Question Type : MCQ

Question ID : 4410091560164

Option 1 ID : 4410096162775

Option 2 ID : 4410096162776

Option 3 ID : 4410096162774

Option 4 ID : 4410096162777

Status : Answered

Chosen Option : 2

Q.7 What should come in place of '?' in the given series based on the English alphabetical order?
JHK PNQ VTW BZC ?

- Ans
- ☒

1. HGK
- ☒

2. GEQ
- ☒

3. GFN
- ☒

4. HFI

Question Type : MCQ

Question ID : 4410091475430

Option 1 ID : 4410095829185

Option 2 ID : 4410095829184

Option 3 ID : 4410095829186

Option 4 ID : 4410095829187

Status : Answered

Chosen Option : 4

Q.8 Where did India begin Exercise MAITREE-XIV with Thailand in 2025?

- Ans
- ☒

1. Assam
- ☒

2. Arunachal Pradesh
- ☒

3. Meghalaya
- ☒

4. Sikkim

Question Type : MCQ

Question ID : 4410091583113

Option 1 ID : 4410096253802

Option 2 ID : 4410096253801

Option 3 ID : 4410096253800

Option 4 ID : 4410096253803

Status : Not Answered

Chosen Option : --

Q.9 The gravitational force (F) between two objects with mass m_1 and m_2 ; is always _____ .

- Ans
- ☒

1. Sometimes attractive, sometimes repulsive
- ☒

2. Attractive
- ☒

3. Repulsive
- ☒

4. Zero

Question Type : MCQ

Question ID : 4410091254685

Option 1 ID : 4410094951725

Option 2 ID : 4410094951722

Option 3 ID : 4410094951723

Option 4 ID : 4410094951724

Status : Answered

Chosen Option : 4

Q.13 In which year was the East India Company founded to engage in trade with India and East and Southeast Asia?

Ans 1. 1610

X 2. 1615

✓ 3. 1600

X 4. 1605

Question Type : **MCQ**

Question ID : 4410091571790

Option 1 ID : 4410096208211

Option 2 ID : 4410096208212

Option 3 ID : 4410096208209

Option 4 ID : 4410096208210

Status : **Answered**

Chosen Option : 4

Q.14 Which of the following is the primary international body that promotes global trade liberalization and economic globalization?

Ans ~~X~~ 1. African Continental Free Trade Area (AfCFTA)

~~2. European Free Trade Association (EFTA)~~

 3. Shanghai Cooperation Organization (SCO)

✓ 4. World Trade Organization (WTO)

Question Type : **MCQ**

Question ID : 4410091448961

Option 1 ID : 4410095724319

Option 2 ID : 4410095724316

Option 3 ID : 4410095724317

Option 4 ID : 4410095724318

Status : **Answered**

Chosen Option : **3**

Q.15 A wave has a wavelength of 0.5 m and a frequency of 200 Hz. Its speed is

Ans ~~X~~ 1.50 m/s

✓ 2. 100 m/s

☒ 3. 400 m/s

☒ 4. 200 m/s

Question Type : MCQ

Question ID : 4410091256279

Option 1 ID : 4410094958013

Option 2 ID : 4410094958014

Option 3 ID : 4410094958016

Option 4 ID : 4410094958015

Status : **Answered**

Chosen Option : **2**

Q.16 Which of the following groups represents Indo-Aryan languages primarily spoken in the eastern region of India?

- Ans
1. Assamese, Konkani, Odia

2. Konkani, Marathi, Gujarati

3. Assamese, Bengali, Odia

4. Bengali, Maithali, Konkani

Question Type : MCQ

Question ID : 4410091572976

Option 1 ID : 4410096212741

Option 2 ID : 4410096212739

Option 3 ID : 4410096212740

Option 4 ID : 4410096212742

Status : Answered

Chosen Option : 3

Q.17 The total surface area of 12 cubes and 17 cuboids is 968 sq. cm. Each cuboid is formed by joining two cubes face to face. If the length of each side of a

cube is 'a' cm, then find the value of $\frac{a^3}{4} \times \frac{8-a}{4-a}$.

- Ans
1. 4

2. 6

3. 8

4. 2

Question Type : MCQ

Question ID : 4410091562388

Option 1 ID : 4410096171126

Option 2 ID : 4410096171125

Option 3 ID : 4410096171128

Option 4 ID : 4410096171127

Status : Not Answered

Chosen Option : --

Q.18 In 2025, India launched a homegrown microprocessor called DHRUV64. What is its key feature?

- Ans
1. 64-bit dual-core microprocessor

2. 64-bit solar-powered chip

3. 64-bit wireless data chip

4. 64-bit blockchain microprocessor

Question Type : MCQ

Question ID : 4410091583017

Option 1 ID : 4410096253421

Option 2 ID : 4410096253420

Option 3 ID : 4410096253422

Option 4 ID : 4410096253423

Status : Not Answered

Chosen Option : --

Q.19

If fertilisation does not occur, what happens to the thickened uterine lining in females?

Ans

✓

1. It sheds as blood and mucous in menstruation

✗

2. It hardens and forms scar tissue

✗

3. It is absorbed back into the body slowly

✗

4. It remains in the uterus permanently

Question Type : MCQ

Question ID : 4410091562246

Option 1 ID : 4410096170568

Option 2 ID : 4410096170569

Option 3 ID : 4410096170567

Option 4 ID : 4410096170566

Status : Answered

Chosen Option : 1

Q.20

A neuron consists of a cell body, a nucleus, and many short, branched parts called _____.

Ans

✓

1. dendrites

✗

2. flagella

✗

3. villi

✗

4. cilia

Question Type : MCQ

Question ID : 4410091695124

Option 1 ID : 4410096686553

Option 2 ID : 4410096686555

Option 3 ID : 4410096686556

Option 4 ID : 4410096686554

Status : Answered

Chosen Option : 1

Q.21

A pipe can fill a tank in 6 hours. Another pipe can empty the filled tank in 42 hours. If both the pipes are opened simultaneously, then the time (in hours) in which the tank will be filled is:3968

Ans

✓

1. 7

✗

2. 8

✗

3. 10

✗

4. 9

Question Type : MCQ

Question ID : 441009897281

Option 1 ID : 4410093543194

Option 2 ID : 4410093543195

Option 3 ID : 4410093543197

Option 4 ID : 4410093543196

Status : Answered

Chosen Option : 1

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Q.22

The average of five numbers is 30. If one of the numbers is 34, what is the average of the remaining four numbers?

Ans

✖

1. 27

✖

2. 31

✖

3. 28

✔

4. 29

Question Type : MCQ

Question ID : 4410091575782

Option 1 ID : 4410096223905

Option 2 ID : 4410096223903

Option 3 ID : 4410096223904

Option 4 ID : 4410096223902

Status : Answered

Chosen Option : 2

Q.23

Which among the following is NOT a land resource?

Ans

✖

1. Water

✔

2. Sunlight

✖

3. Minerals

✖

4. Soil

Question Type : MCQ

Question ID : 44100924798

Option 1 ID : 44100998916

Option 2 ID : 44100998917

Option 3 ID : 44100998918

Option 4 ID : 44100998915

Status : Answered

Chosen Option : 2

Q.24

Which statement best explains why non-metallic oxides generally react with bases?

Ans

✖

1. Non-metallic oxides are basic in nature

✖

2. Non-metallic oxides are neutral in nature

✔

3. Non-metallic oxides are acidic in nature

✖

4. Non-metallic oxides do not react with bases

Question Type : MCQ

Question ID : 4410091565686

Option 1 ID : 4410096184186

Option 2 ID : 4410096184185

Option 3 ID : 4410096184184

Option 4 ID : 4410096184187

Status : Answered

Chosen Option : 1

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Q.25 Which Indian film actress won the 70th Filmfare Best Actor in a Leading Role (Female) award in 2025?

Ans

✓ 1. Alia Bhatt

✗ 2. Radhika Apte

✗ 3. Kangana Ranaut

✗ 4. Yami Gautam

Question Type : MCQ

Question ID : 4410091583532

Option 1 ID : 4410096255449

Option 2 ID : 4410096255451

Option 3 ID : 4410096255448

Option 4 ID : 4410096255450

Status : Answered

Chosen Option : 2

Q.26 Which of the following physiographic divisions is a part of the Peninsular Plateau?

Ans

✗ 1. The Himalayan Mountains

✗ 2. The Northern Plains

✓ 3. The Central Highlands

✗ 4. The Islands

Question Type : MCQ

Question ID : 44100914715

Option 1 ID : 44100958715

Option 2 ID : 44100958714

Option 3 ID : 44100958716

Option 4 ID : 44100958713

Status : Answered

Chosen Option : 3

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Q.27 Below are given two sets of numbers. In each set of numbers, a certain mathematical operation on the first number results in the second number. Similarly, certain mathematical operation on the second number results in the third number and so on. Which of the given options follows the same set of operations as in question?
(NOTE – A two/three digit number cannot be broken into individual digits for operations, e.g. if 37 is followed by 10, the operation cannot be 3+7 as a two digit number cannot be broken into individual digits.)
5 - 10 - 20 - 40 ; 3 - 6 - 12 - 24

- Ans
- ☒ 1. 3 - 6 - 12 - 23
 - ☒ 2. 11 - 22 - 24 - 28
 - ☒ 3. 6 - 12 - 24 - 48
 - ☒ 4. 6 - 10 - 12 - 14

Question Type : MCQ
Question ID : 4410091337598
Option 1 ID : 4410095282376
Option 2 ID : 4410095282377
Option 3 ID : 4410095282375
Option 4 ID : 4410095282378
Status : Answered
Chosen Option : 3

Q.28 Each vowel in the word CURTAIL is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters will be third from the right in the new group of letters thus formed?

- Ans
- ☒ 1. D
 - ☒ 2. C
 - ☒ 3. B
 - ☒ 4. A

Question Type : MCQ
Question ID : 441009778829
Option 1 ID : 4410093069321
Option 2 ID : 4410093069320
Option 3 ID : 4410093069319
Option 4 ID : 4410093069322
Status : Answered
Chosen Option : 4

Q.29

The largest four-digit number which when divided by 14, 9 and 8 leaves remainder 2 in each case is:

Ans

✖

1. 9584

✔

2. 9578

✖

3. 9234

✖

4. 9964

Question Type : MCQ

Question ID : 441009525163

Option 1 ID : 4410092056073

Option 2 ID : 4410092056071

Option 3 ID : 4410092056072

Option 4 ID : 4410092056074

Status : Not Answered

Chosen Option : --

Q.30

Which constitutional amendment established an urban local government system in India in 1992?

Ans

✖

1. 73rd Constitutional Amendment Act

✔

2. 74th Constitutional Amendment Act

✖

3. 65th Constitutional Amendment Bill

✖

4. 68th Constitutional Amendment Act

Question Type : MCQ

Question ID : 4410091579250

Option 1 ID : 4410096238226

Option 2 ID : 4410096238228

Option 3 ID : 4410096238227

Option 4 ID : 4410096238229

Status : Answered

Chosen Option : 4

Section : Professional Ability

Q.1

A consumer's negative experience with side effects from a drug leads to avoidance of all similar products. Which characteristic explains this behavior?

Ans

✔

1. Influence of past experience on future choices

✖

2. Influence of celebrity endorsement

✖

3. Increased price sensitivity toward medicines

✖

4. Preference for attractive packaging

Question Type : MCQ

Question ID : 4410091692581

Option 1 ID : 4410096676396

Option 2 ID : 4410096676399

Option 3 ID : 4410096676397

Option 4 ID : 4410096676398

Status : Not Answered

Chosen Option : --

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Q.2 Which of the following statements best describes the mechanism of acid-base catalysis in the hydrolysis of esters?

- Ans ☒ 1. The acid catalyst donates an electron pair to the carbonyl group, decreasing its reactivity.
- ☒ 2. A proton is transferred from the acid catalyst to the carbonyl oxygen, increasing electrophilicity and facilitating nucleophilic attack.
- ☒ 3. The base catalyst adds a hydroxide ion to the ester, forming a stable intermediate that halts the reaction.
- ☒ 4. The base catalyst removes a proton from the alcohol group, reducing nucleophilicity and inhibiting the reaction.

Question Type : MCQ

Question ID : 4410091694879

Option 1 ID : 4410096685587

Option 2 ID : 4410096685585

Option 3 ID : 4410096685588

Option 4 ID : 4410096685586

Status : Answered

Chosen Option : 1

Q.3 Which of the following is NOT typically used as a flavor in oral monophasic liquids?

- Ans ☒ 1. Strawberry
- ☒ 2. Copper sulfate
- ☒ 3. Orange
- ☒ 4. Vanilla

Question Type : MCQ

Question ID : 4410091589260

Option 1 ID : 4410096277633

Option 2 ID : 4410096277635

Option 3 ID : 4410096277634

Option 4 ID : 4410096277632

Status : Answered

Chosen Option : 4

Q.4 Which adverse effect is most commonly associated with the long-term use of antiplatelet drugs?

- Ans ☒ 1. Hyperglycemia
- ☒ 2. Bleeding
- ☒ 3. Constipation
- ☒ 4. Hypertension

Question Type : MCQ

Question ID : 4410091557329

Option 1 ID : 4410096151777

Option 2 ID : 4410096151774

Option 3 ID : 4410096151775

Option 4 ID : 4410096151776

Status : Answered

Chosen Option : 2

Q.5 When using a super centrifuge for separating oil and water emulsions, what operational parameter most significantly affects the sharpness of phase separation?

- Ans ☒ 1. Rotational speed of the centrifuge bowl
- ☒ 2. Diameter of the feed tube
- ☒ 3. Viscosity of the lubricating oil
- ☒ 4. Temperature of the feed mixture

Question Type : MCQ

Question ID : 4410091691703

Option 1 ID : 4410096672954

Option 2 ID : 4410096672955

Option 3 ID : 4410096672957

Option 4 ID : 4410096672956

Status : Not Answered

Chosen Option : --

Q.6 If a compound inhibits the site between cytochrome b and c1, which of the following is most likely that compound?

- Ans ☒ 1. Antimycin A
- ☒ 2. Cyanide
- ☒ 3. Malonate
- ☒ 4. Rotenone

Question Type : MCQ

Question ID : 4410091695080

Option 1 ID : 4410096686381

Option 2 ID : 4410096686382

Option 3 ID : 4410096686383

Option 4 ID : 4410096686384

Status : Answered

Chosen Option : 1

Q.7 Which parameter is affected when an acid catalyst is added to a reaction?

- Ans ☒ 1. Enthalpy change
- ☒ 2. Free energy
- ☒ 3. Temperature
- ☒ 4. Activation energy

Question Type : MCQ

Question ID : 4410091561482

Option 1 ID : 4410096168051

Option 2 ID : 4410096168052

Option 3 ID : 4410096168053

Option 4 ID : 4410096168050

Status : Answered

Chosen Option : 3

Q.8 In the context of pharmaceutical marketing, how does a consumer's self-concept most likely influence their buying behaviour?

- Ans
- ☒

1. It shapes preferences for products that align with their self-image.
- ☐

2. It has no effect on product involvement.
- ☐

3. It prevents information processing about products.
- ☐

4. It always leads to impulse purchases.

Question Type : MCQ

Question ID : 4410091714851

Option 1 ID : 4410096763318

Option 2 ID : 4410096763321

Option 3 ID : 4410096763320

Option 4 ID : 4410096763319

Status : Answered

Chosen Option : 2

Q.9 Which of the following is a typical symptom of acute myocardial infarction that helps distinguish it from angina pectoris?

- Ans
- ☐

1. Pain only during deep breathing
- ☐

2. Chest pain relieved by rest
- ☒

3. Sudden severe chest pain lasting more than 20 minutes
- ☐

4. Mild chest discomfort after exercise

Question Type : MCQ

Question ID : 4410091559791

Option 1 ID : 4410096161407

Option 2 ID : 4410096161405

Option 3 ID : 4410096161404

Option 4 ID : 4410096161406

Status : Answered

Chosen Option : 3

Q.10 Which of the following ICH guidelines covers the design and conduct of clinical trials for herbal drugs?

- Ans
- ☒

1. Efficacy (E) Guidelines
- ☐

2. Quality (Q) Guidelines
- ☐

3. Multidisciplinary (M) Guidelines
- ☐

4. Safety (S) Guidelines

Question Type : MCQ

Question ID : 4410091702901

Option 1 ID : 4410096716776

Option 2 ID : 4410096716774

Option 3 ID : 4410096716777

Option 4 ID : 4410096716775

Status : Answered

Chosen Option : 3

Q.11 What is the sequence of the four stages of equipment qualification as per ICH and US FDA guidelines, which ensures reliability during manufacturing?

Ans

- ❌ 1. Installation, performance, operational & design
- ❌ 2. Design, installation, performance & operational
- ❌ 3. Installation, operational, performance & design
- ✅ 4. Design, installation, operational & performance

Question Type : **MCQ**
Question ID : **4410091570870**
Option 1 ID : **4410096204459**
Option 2 ID : **4410096204461**
Option 3 ID : **4410096204458**
Option 4 ID : **4410096204460**
Status : **Answered**
Chosen Option : **2**

Q.12 Which statement best describes an advantage of biphasic systems over monophasic systems?

Ans  1. Can deliver insoluble drugs

 2. Have no risk of microbial growth

 3. Do not need flavoring agents

 4. Are always clear solutions

Question Type : **MCQ**
Question ID : **4410091588775**
Option 1 ID : **4410096275768**
Option 2 ID : **4410096275770**
Option 3 ID : **4410096275771**
Option 4 ID : **4410096275769**
Status : **Answered**
Chosen Option : **1**

Q.13 Which symptom is commonly associated with acute myocardial infarction?

Ans

- ☐ 1. Intermittent cough
- ☐ 2. Frequent urination
- ☐ 3. Fever
- ☒ 4. Severe chest pain

Question Type : **MCQ**
Question ID : **4410091559832**
Option 1 ID : **4410096161547**
Option 2 ID : **4410096161546**
Option 3 ID : **4410096161548**
Option 4 ID : **4410096161545**
Status : **Answered**
Chosen Option : **4**

Q.14 What is a key advantage of rectal drug administration compared to oral?

- Ans
- ☒

1. It is suitable for all drugs
- ☒

2. It can be used when a patient is vomiting
- ☐

3. It always has faster onset than intravenous
- ☐

4. It eliminates all first-pass metabolism

Question Type : MCQ

Question ID : 4410091591810

Option 1 ID : 4410096287626

Option 2 ID : 4410096287623

Option 3 ID : 4410096287624

Option 4 ID : 4410096287625

Status : Answered

Chosen Option : 2

Q.15 Which initial step is involved in the preparation of Arista according to Ayurvedic formulation?

- Ans
- ☒

1. Coarsely powdering the drugs and preparing kasaya
- ☐

2. Adding honey at the beginning
- ☐

3. Directly fermenting whole herbs
- ☐

4. Dissolving sugar in water

Question Type : MCQ

Question ID : 4410091702753

Option 1 ID : 4410096716202

Option 2 ID : 4410096716205

Option 3 ID : 4410096716204

Option 4 ID : 4410096716203

Status : Answered

Chosen Option : 1

Q.16 Which of the following is commonly used as a neutral preservative in monophasic liquid dosage forms?

- Ans
- ☒

1. Benzyl alcohol
- ☐

2. Benzoic acid
- ☐

3. Methyl paraben
- ☐

4. Phenol

Question Type : MCQ

Question ID : 4410091589257

Option 1 ID : 4410096277623

Option 2 ID : 4410096277621

Option 3 ID : 4410096277620

Option 4 ID : 4410096277622

Status : Answered

Chosen Option : 3

Q.17 Which of the following is an external factor influencing consumer buying behaviour?

Ans

✓ 1. Economic changes

✗ 2. Perception

✗ 3. Personal motivation

✗ 4. Attitude

Question Type : MCQ

Question ID : 4410091561906

Option 1 ID : 4410096169399

Option 2 ID : 4410096169401

Option 3 ID : 4410096169398

Option 4 ID : 4410096169400

Status : Answered

Chosen Option : 3

Q.18 A patient receives a subcutaneous drug injection. To enhance drug absorption, the nurse co-administers hyaluronidase. What is the primary effect of this enzyme?

Ans

✓ 1. It increases drug-tissue contact area by breaking down connective tissue

✗ 2. It promotes drug precipitation at the site

✗ 3. It decreases blood flow to the site

✗ 4. It induces local vasoconstriction

Question Type : MCQ

Question ID : 4410091713687

Option 1 ID : 4410096758820

Option 2 ID : 4410096758822

Option 3 ID : 4410096758821

Option 4 ID : 4410096758823

Status : Answered

Chosen Option : 1

Q.19 Which mechanism is suggested as one way fiber can lower plasma cholesterol?

Ans

✗ 1. Reducing water intake

✓ 2. Binding bile acids

✗ 3. Increasing protein synthesis

✗ 4. Increasing blood glucose

Question Type : MCQ

Question ID : 4410091561695

Option 1 ID : 4410096168672

Option 2 ID : 4410096168671

Option 3 ID : 4410096168673

Option 4 ID : 4410096168670

Status : Not Answered

Chosen Option : --

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Q.20 During an acid-base titration, a student uses a weak acid and a strong base. What will be the pH at the equivalence point?

- Ans
- ☒

1. Exactly 7
- ☒

2. Greater than 7
- ☒

3. Depends on initial concentration of acid
- ☒

4. Less than 7

Question Type : MCQ

Question ID : 4410091569381

Option 1 ID : 4410096198521

Option 2 ID : 4410096198522

Option 3 ID : 4410096198523

Option 4 ID : 4410096198520

Status : Answered

Chosen Option : 3

Q.21 Which of the following is considered ethical in pharmaceutical advertising according to the Code?

- Ans
- ☒

1. Providing balanced information about drug use
- ☒

2. Concealing side effects
- ☒

3. Comparing with non-pharmaceutical products
- ☒

4. Promoting off-label uses

Question Type : MCQ

Question ID : 4410091559591

Option 1 ID : 4410096160601

Option 2 ID : 4410096160600

Option 3 ID : 4410096160603

Option 4 ID : 4410096160602

Status : Answered

Chosen Option : 1

Q.22 Which activity is specifically included under the Quality Guidelines for herbal drug assessment?

- Ans
- ☒

1. Botanical identification
- ☒

2. Genotoxicity studies
- ☒

3. Clinical trial conduct
- ☒

4. Preparation of Common Technical Document

Question Type : MCQ

Question ID : 4410091702902

Option 1 ID : 4410096716780

Option 2 ID : 4410096716778

Option 3 ID : 4410096716779

Option 4 ID : 4410096716781

Status : Answered

Chosen Option : 3

Q.23 Which of following processes is required for clarifying injectable solutions by removing submicron contaminants?

- Ans
- ☒

1. Slow-speed mixer with filter paper
- ☒

2. Super centrifuge operating at maximum safe rotational speed
- ☒

3. Gravity sedimentation tank
- ☒

4. Drying oven at high temperature

Question Type : MCQ

Question ID : 4410091591342

Option 1 ID : 4410096285776

Option 2 ID : 4410096285775

Option 3 ID : 4410096285778

Option 4 ID : 4410096285777

Status : Not Answered

Chosen Option : --

Q.24 If a patient indicates myocardial infarction due to cocaine use, which etiological category does this fall under?

- Ans
- ☒

1. Drug-induced ischemia
- ☒

2. Nonmodifiable risk factor
- ☒

3. Coronary artery anomaly
- ☒

4. Peripheral vascular disease

Question Type : MCQ

Question ID : 4410091582497

Option 1 ID : 4410096251268

Option 2 ID : 4410096251269

Option 3 ID : 4410096251270

Option 4 ID : 4410096251271

Status : Not Answered

Chosen Option : --

Q.25 In the context of dietary fibres and complex carbohydrates, which health claim is most strongly supported by scientific evidence?

- Ans
- ☒

1. All dietary fibres are completely digested in the small intestine.
- ☒

2. Dietary fibre causes permanent weight loss without diet modification.
- ☒

3. Dietary fibre intake reduces the risk of coronary heart disease.
- ☒

4. Complex carbohydrates lead to insulin resistance when consumed in high amounts.

Question Type : MCQ

Question ID : 4410091696112

Option 1 ID : 4410096690373

Option 2 ID : 4410096690371

Option 3 ID : 4410096690370

Option 4 ID : 4410096690372

Status : Answered

Chosen Option : 1

Q.26

According to Stokes' law, which change will most effectively reduce the rate of creaming in an emulsion?

Ans

☒

1. Decreasing the size of the droplets

☐

2. Increasing the droplet size

☐

3. Decreasing the viscosity of the external phase

☐

4. Increasing the density difference between phases

Question Type : MCQ

Question ID : 4410091702430

Option 1 ID : 4410096714946

Option 2 ID : 4410096714949

Option 3 ID : 4410096714948

Option 4 ID : 4410096714947

Status : Answered

Chosen Option : 1

Q.27

What is the influence of food in stomach on drug delivery system?

Ans

☐

1. Change the intrinsic permeability of intestinal membrane

☒

2. May alter the rate and extent of drug bioavailability

☐

3. Change the enteric coating of drug

☐

4. Alter the color of drug

Question Type : MCQ

Question ID : 4410091598522

Option 1 ID : 4410096314037

Option 2 ID : 4410096314034

Option 3 ID : 4410096314036

Option 4 ID : 4410096314035

Status : Answered

Chosen Option : 1

Q.28

Why is the kasaya strained before being kept in the fermentation vessel during Arista preparation?

Ans

☐

1. To reduce sugar content

☐

2. To initiate fermentation early

☐

3. To increase temperature rapidly

☒

4. To remove solid particles and obtain a clear liquid for fermentation

Question Type : MCQ

Question ID : 4410091702763

Option 1 ID : 4410096716240

Option 2 ID : 4410096716239

Option 3 ID : 4410096716241

Option 4 ID : 4410096716238

Status : Answered

Chosen Option : 4

Q.29

According to the code of pharmaceutical ethics, which of these statements is NOT allowed in advertising for medicines?

Ans

✖

1. Shelf-life information

✔

2. Misleading claim

✖

3. Product origin

✖

4. Storage instructions

Question Type : MCQ

Question ID : 4410091559382

Option 1 ID : 4410096159864

Option 2 ID : 4410096159863

Option 3 ID : 4410096159865

Option 4 ID : 4410096159866

Status : Answered

Chosen Option : 4

Q.30

Why is the mouth of the fermentation vessel covered with muslin cloth during preparation of Arista and Asava?

Ans

✖

1. To prevent evaporation

✔

2. To allow air exchange and prevent contamination

✖

3. To enhance sweetness

✖

4. To maintain temperature

Question Type : MCQ

Question ID : 4410091561923

Option 1 ID : 4410096169462

Option 2 ID : 4410096169463

Option 3 ID : 4410096169465

Option 4 ID : 4410096169464

Status : Answered

Chosen Option : 1

Q.31

Which compounds react with the oxidized form of cytochrome oxidase?

Ans

✖

1. Rotenone and amytal

✖

2. Antimycin A and BAL

✖

3. Carbon monoxide and piercidin A

✔

4. Cyanide and azide

Question Type : MCQ

Question ID : 4410091561063

Option 1 ID : 4410096166423

Option 2 ID : 4410096166425

Option 3 ID : 4410096166424

Option 4 ID : 4410096166422

Status : Not Answered

Chosen Option : --

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Q.35 According to the Lewis acid-base concept, a Lewis acid is defined as a/an:

- Ans ☒ 1. Electron acceptor
- ☐ 2. Proton acceptor
- ☐ 3. Electron donor
- ☐ 4. Proton donor

Question Type : MCQ
Question ID : 4410091695163
Option 1 ID : 4410096686709
Option 2 ID : 4410096686710
Option 3 ID : 4410096686711
Option 4 ID : 4410096686712
Status : Answered
Chosen Option : 4

Q.36 What is the effect of adding a small amount of strong acid to a buffer solution of acetic acid and sodium acetate?

- Ans ☐ 1. The pH remains exactly the same
- ☐ 2. The pH increases significantly
- ☒ 3. The pH settles near its original value
- ☐ 4. The pH drops sharply to acidic value

Question Type : MCQ
Question ID : 4410091689327
Option 1 ID : 4410096663721
Option 2 ID : 4410096663720
Option 3 ID : 4410096663718
Option 4 ID : 4410096663719
Status : Answered
Chosen Option : 2

Q.37 If poorly water soluble drugs are formulated as emulsions then which of the following is a major advantage of using emulsions as a biphasic liquid dosage form?

- Ans ☐ 1. They always mask the taste of all drugs completely
- ☐ 2. They require no special storage conditions
- ☒ 3. They enhance dissolution rates and bioavailability of the drug
- ☐ 4. They are less expensive to manufacture than all other dosage forms

Question Type : MCQ
Question ID : 4410091701340
Option 1 ID : 4410096710675
Option 2 ID : 4410096710677
Option 3 ID : 4410096710674
Option 4 ID : 4410096710676
Status : Not Answered
Chosen Option : --

Q.38 Which organization establishes the Code of Pharmaceutical Ethics regarding advertising and displays in India?

Ans

✖ 1. Central Drugs Standard Control Organisation

✖ 2. Indian Pharmacopoeia Commission

✔ 3. Pharmacy Council of India

✖ 4. Medical Council of India

Question Type : MCQ

Question ID : 4410091591688

Option 1 ID : 4410096287146

Option 2 ID : 4410096287145

Option 3 ID : 4410096287143

Option 4 ID : 4410096287144

Status : Answered

Chosen Option : 3

Q.39 What is the role of plasmids in the application of rDNA technology in pharmaceutical biotechnology?

Ans

✔ 1. Vectors for gene transfer

✖ 2. Nutrients for cell growth

✖ 3. Enzymes for digestion

✖ 4. Markers for identification

Question Type : MCQ

Question ID : 4410091559677

Option 1 ID : 4410096160932

Option 2 ID : 4410096160934

Option 3 ID : 4410096160933

Option 4 ID : 4410096160935

Status : Answered

Chosen Option : 1

Q.40 Why are aminoglycosides generally not effective against anaerobic bacteria?

Ans

✖ 1. Aminoglycosides are inactivated by anaerobes

✖ 2. Anaerobic bacteria lack a cell wall

✔ 3. Aminoglycosides require oxygen-dependent transport to enter cells

✖ 4. Anaerobes produce more protein than aerobes

Question Type : MCQ

Question ID : 4410091599410

Option 1 ID : 4410096317423

Option 2 ID : 4410096317424

Option 3 ID : 4410096317425

Option 4 ID : 4410096317426

Status : Answered

Chosen Option : 1

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Q.41 Which of the following best describes the composition of Schiff's reagent used in detecting aldehydes?

Ans

- ✗ 1. Alkaline solution of cupric ion complexed with citrate ions
- ✗ 2. Ammoniacal solution of silver oxide
- ✓ 3. Rosalinine hydrochloride dissolved in water
- ✗ 4. Alkaline solution of cupric ion complexed with sodium potassium tartrate ions

Question Type : **MCQ**
Question ID : **4410091695221**
Option 1 ID : **4410096686936**
Option 2 ID : **4410096686934**
Option 3 ID : **4410096686933**
Option 4 ID : **4410096686935**
Status : **Not Answered**
Chosen Option : --

Q.42 Which combination of biological factors must be considered together when designing a controlled drug delivery system for oral use?

Ans ✓ 1. Gastrointestinal motility and enzyme activity
✗ 2. Capsule size and taste
✗ 3. Tablet weight and shape
✗ 4. Storage temperature and humidity

Question Type : **MCQ**
Question ID : **4410091598493**
Option 1 ID : **4410096313910**
Option 2 ID : **4410096313912**
Option 3 ID : **4410096313911**
Option 4 ID : **4410096313913**
Status : **Answered**
Chosen Option : **1**

Q.43 How does the addition of a co-emulsifier like cetyl alcohol affect an emulsion?

Ans  1. It improves the stability of the emulsion

 2. It increases the solubility of oil phase

 3. It turns oil-in-water to water-in-oil type

 4. It decreases the viscosity significantly

Question Type : **MCQ**
Question ID : **4410091691903**
Option 1 ID : **4410096673722**
Option 2 ID : **4410096673724**
Option 3 ID : **4410096673725**
Option 4 ID : **4410096673723**
Status : **Answered**
Chosen Option : **1**

Q.44 Which class of appetite suppressants does fluoxetine belong to?

- Ans
- ☐ 1. Amphetamines
 - ☐ 2. Sympathomimetic drugs
 - ☐ 3. Central catecholamine pathway drugs
 - ☒ 4. Central serotonin pathway drugs

Question Type : MCQ
Question ID : 4410091556152
Option 1 ID : 4410096147173
Option 2 ID : 4410096147171
Option 3 ID : 4410096147170
Option 4 ID : 4410096147172
Status : Answered
Chosen Option : 1

Q.45 Which of the following are used as in-vitro anticoagulants?

- Ans
- ☐ 1. Coumarin derivatives
 - ☒ 2. Calcium complexing agents
 - ☐ 3. Indandione derivatives
 - ☐ 4. Phenindione

Question Type : MCQ
Question ID : 4410091563630
Option 1 ID : 4410096176089
Option 2 ID : 4410096176090
Option 3 ID : 4410096176091
Option 4 ID : 4410096176092
Status : Not Answered
Chosen Option : --

Q.46 A dietitian is tasked with planning meals for a client who needs increased stool bulk and also wants to help manage blood cholesterol. Which of the following combination of foods best meets both requirements?

- Ans
- ☐ 1. White bread and butter
 - ☒ 2. Whole grain cereals and oats
 - ☐ 3. Refined pasta and cheese
 - ☐ 4. Eggs and grilled chicken

Question Type : MCQ
Question ID : 4410091703161
Option 1 ID : 4410096717787
Option 2 ID : 4410096717786
Option 3 ID : 4410096717789
Option 4 ID : 4410096717788
Status : Answered
Chosen Option : 2

Q.47 Which of the following is an irreversible instability in emulsions?

- Ans ☒ 1. Cracking
- ☒ 2. Flocculation
- ☒ 3. Phase inversion
- ☒ 4. Creaming

Question Type : MCQ

Question ID : 4410091702406

Option 1 ID : 4410096714850

Option 2 ID : 4410096714851

Option 3 ID : 4410096714853

Option 4 ID : 4410096714852

Status : Answered

Chosen Option : 3

Q.48 In the context of alphabetical classification, what is the primary advantage?

- Ans ☒ 1. Easy retrieval of drug information
- ☒ 2. Biological source can be traced
- ☒ 3. Previous and successive drug entries are related
- ☒ 4. Pharmacological action of drugs can be identified

Question Type : MCQ

Question ID : 4410091561851

Option 1 ID : 4410096169183

Option 2 ID : 4410096169185

Option 3 ID : 4410096169182

Option 4 ID : 4410096169184

Status : Answered

Chosen Option : 1

Q.49 Which of the following is NOT typically considered an Operational Qualification test for an HPLC unit?

- Ans ☒ 1. Gradient linearity
- ☒ 2. Detector wavelength accuracy
- ☒ 3. Routine analytical tests
- ☒ 4. Pump flow rate

Question Type : MCQ

Question ID : 4410091558147

Option 1 ID : 4410096154923

Option 2 ID : 4410096154920

Option 3 ID : 4410096154922

Option 4 ID : 4410096154921

Status : Answered

Chosen Option : 2

Q.50

Which of the following best describes the difference between the alphabetical classification of drugs in the European Pharmacopoeia and the United States Pharmacopeia (U.S.P.)?

Ans

✖

1. U.S.P. uses scientific names, European Pharmacopoeia uses common names

✔

2. European Pharmacopoeia uses Latin names, U.S.P. uses English names

✖

3. Both use English names

✖

4. Both use Latin names

Question Type : MCQ

Question ID : 4410091702669

Option 1 ID : 4410096715877

Option 2 ID : 4410096715874

Option 3 ID : 4410096715875

Option 4 ID : 4410096715876

Status : Answered

Chosen Option : 1

Q.51

Which of the following routes is considered a non per oral extravascular route for drug absorption?

Ans

✖

1. Gastric

✖

2. Oral

✖

3. Intravenous

✔

4. Buccal

Question Type : MCQ

Question ID : 4410091713671

Option 1 ID : 4410096758763

Option 2 ID : 4410096758761

Option 3 ID : 4410096758762

Option 4 ID : 4410096758760

Status : Answered

Chosen Option : 1

Q.52

In a clinical scenario where bacteria produce aminoglycoside acetyltransferase, which aminoglycoside would likely retain efficacy and why?

Ans

✖

1. Gentamicin, because it has no amino groups

✔

2. Amikacin, due to its L-hydroxyaminobutyryl group at N-1

✖

3. Streptomycin, due to absence of 2-deoxystreptamine nucleus

✖

4. Neomycin, due to its high polarity

Question Type : MCQ

Question ID : 4410091695975

Option 1 ID : 4410096689875

Option 2 ID : 4410096689874

Option 3 ID : 4410096689876

Option 4 ID : 4410096689877

Status : Not Answered

Chosen Option : --

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Q.53 Which statement best describes Bronsted acids in the context of acid catalysis?

Ans

✖ 1. Bronsted acids are only H+ ions

✖ 2. Bronsted acids are proton acceptors

✖ 3. Bronsted acids are always undissociated

✔ 4. Bronsted acids are proton donors that can cause acid catalysis

Question Type : MCQ

Question ID : 4410091714246

Option 1 ID : 4410096760899

Option 2 ID : 4410096760896

Option 3 ID : 4410096760897

Option 4 ID : 4410096760898

Status : Answered

Chosen Option : 2

Q.54 Which of the following acids has the lowest pKa value, indicating the highest acid strength?

Ans

✖ 1. Acetic acid

✔ 2. Sulphuric acid

✖ 3. Formic acid

✖ 4. Citric acid

Question Type : MCQ

Question ID : 4410091557606

Option 1 ID : 4410096152720

Option 2 ID : 4410096152721

Option 3 ID : 4410096152722

Option 4 ID : 4410096152723

Status : Answered

Chosen Option : 1

Q.55 Which of the following concentration range of sucrose acts as a self preservative in monophasic liquid dosage forms?

Ans

✔ 1. 60-85%

✖ 2. 20-30%

✖ 3. 40-45%

✖ 4. 50-55%

Question Type : MCQ

Question ID : 4410091589283

Option 1 ID : 4410096277720

Option 2 ID : 4410096277723

Option 3 ID : 4410096277722

Option 4 ID : 4410096277721

Status : Answered

Chosen Option : 1

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Q.56 Methotrexate and Riboflavin are unsuitable for sustained release because they are absorbed through:

- Ans
- ☒

1. Passive diffusion
- ☒

2. Pinocytosis
- ☒

3. Paracellular diffusion
- ☒

4. Active transport

Question Type : MCQ

Question ID : 4410091560078

Option 1 ID : 4410096162434

Option 2 ID : 4410096162437

Option 3 ID : 4410096162436

Option 4 ID : 4410096162435

Status : Not Answered

Chosen Option : --

Q.57 How can temperature fluctuations during storage destabilize a suspension?

- Ans
- ☒

1. They can cause particle growth or Ostwald ripening, affecting particle size distribution and polymorphic form.
- ☒

2. They increase the viscosity of the suspension, making it more stable.
- ☒

3. They permanently eliminate all risks of particle caking.
- ☒

4. They make all particles dissolve completely.

Question Type : MCQ

Question ID : 4410091701354

Option 1 ID : 4410096710730

Option 2 ID : 4410096710733

Option 3 ID : 4410096710731

Option 4 ID : 4410096710732

Status : Not Answered

Chosen Option : --

Q.58 Evaluate the following scenario: An elderly patient is prescribed a high-fibre diet for chronic constipation. Which precaution should be emphasized to avoid adverse effects?

- Ans
- ☒

1. Increase fibre intake rapidly to maximize benefits.
- ☒

2. Restrict fibre intake if taking calcium supplements to prevent mineral binding interactions.
- ☒

3. Ensure adequate fluid intake to prevent gastrointestinal obstruction.
- ☒

4. Take fibre supplements immediately before bedtime to enhance overnight bowel movement.

Question Type : MCQ

Question ID : 4410091696113

Option 1 ID : 4410096690375

Option 2 ID : 4410096690377

Option 3 ID : 4410096690374

Option 4 ID : 4410096690376

Status : Not Answered

Chosen Option : --

Q.59 What is the primary purpose of using chemical methods in sterilization?

Ans

- ☒ 1. To remove toxic residues
- ☒ 2. To improve nutrient content of media
- ☒ 3. To eliminate microorganisms
- ☒ 4. To remove visible dirt

Question Type : **MCQ**
Question ID : **4410091589456**
Option 1 ID : **4410096278415**
Option 2 ID : **4410096278414**
Option 3 ID : **4410096278413**
Option 4 ID : **4410096278412**
Status : **Answered**
Chosen Option : **3**

Q.60 When submitting a herbal medicinal product for marketing authorization in Europe requiring efficacy comparable to conventional medicines, which guideline applies?

Ans

- ✗ 1. ICH Q10 Pharmaceutical Quality System
- ✗ 2. EU Regulation 536/2014 on clinical trials
- ✗ 3. ICH S7A Safety Pharmacology Studies
- ✓ 4. EU Directive 2001/83/EC as amended by Directive 2004/24/EC

Question Type : **MCQ**
Question ID : **4410091696235**
Option 1 ID : **4410096690843**
Option 2 ID : **4410096690844**
Option 3 ID : **4410096690845**
Option 4 ID : **4410096690842**
Status : **Answered**
Chosen Option : **2**

Q.61 A patient with significant weight loss due to cancer is started on an appetite stimulant. Which of the following drugs, a progestational agent, is most appropriate for this indication?

Ans  1. Naltrexone
 2. Lorcaserin
 3. Orlistat
 4. Megestrol acetate

Question Type : **MCQ**
Question ID : **4410091689288**
Option 1 ID : **4410096663573**
Option 2 ID : **4410096663572**
Option 3 ID : **4410096663571**
Option 4 ID : **4410096663570**
Status : **Answered**
Chosen Option : **1**

Q.62 Which of the following best defines a drug?

- Ans
- ☒ 1. A substance that causes addiction
 - ☐ 2. A substance used to diagnose, prevent, or treat diseases
 - ☐ 3. A chemical used in laboratory experiments
 - ☐ 4. A nutrient essential for growth

Question Type : MCQ
Question ID : 4410091689119
Option 1 ID : 4410096662921
Option 2 ID : 4410096662918
Option 3 ID : 4410096662920
Option 4 ID : 4410096662919
Status : Answered
Chosen Option : 2

Q.63 A pharmacist is tasked with choosing an appropriate indicator for titrating a weak acid with a strong base. Which factor should most influence their choice?

- Ans
- ☐ 1. The cost of the indicator
 - ☐ 2. The container material used
 - ☒ 3. The pH range at the equivalence point
 - ☐ 4. The color of the indicator

Question Type : MCQ
Question ID : 4410091598874
Option 1 ID : 4410096315290
Option 2 ID : 4410096315292
Option 3 ID : 4410096315291
Option 4 ID : 4410096315289
Status : Answered
Chosen Option : 3

Q.64 Which property makes glutaraldehyde suitable for sterilizing medical equipment?

- Ans
- ☐ 1. Low boiling point for easy evaporation
 - ☒ 2. Broad-spectrum antimicrobial action including spores
 - ☐ 3. Selective activity against spores only
 - ☐ 4. Narrow-spectrum antimicrobial action

Question Type : MCQ
Question ID : 4410091589457
Option 1 ID : 4410096278417
Option 2 ID : 4410096278418
Option 3 ID : 4410096278416
Option 4 ID : 4410096278419
Status : Not Answered
Chosen Option : --

Q.68 Which of following is commonly used as an antiseptic in surgical scrubs?

- Ans ☒ 1. Phenol
☒ 2. Ethylene oxide
☒ 3. Chlorhexidine
☒ 4. Sodium hypochlorite

Question Type : MCQ

Question ID : 4410091589455

Option 1 ID : 4410096278411

Option 2 ID : 4410096278409

Option 3 ID : 4410096278410

Option 4 ID : 4410096278408

Status : Answered

Chosen Option : 2

Q.69 Which of the following is a commonly used antiplatelet drug?

- Ans ☒ 1. Metformin
☒ 2. Paracetamol
☒ 3. Aspirin
☒ 4. Furosemide

Question Type : MCQ

Question ID : 4410091557325

Option 1 ID : 4410096151760

Option 2 ID : 4410096151759

Option 3 ID : 4410096151758

Option 4 ID : 4410096151761

Status : Answered

Chosen Option : 3

Q.70 If a chemist identifies a molecule as both a proton donor and an electron-pair acceptor, which two acid-base concepts does this relate to?

- Ans ☒ 1. Arrhenius and Bronsted-Lowry
☒ 2. Bronsted-Lowry and Lewis
☒ 3. Earlier and Arrhenius
☒ 4. Arrhenius and Lewis

Question Type : MCQ

Question ID : 4410091560176

Option 1 ID : 4410096162822

Option 2 ID : 4410096162823

Option 3 ID : 4410096162825

Option 4 ID : 4410096162824

Status : Answered

Chosen Option : 1