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Computer Based Examination System

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| Exported On * | 2021/04/13 10:21:07 |
| Title * | Question Paper Answer Key |
| OES Exam * | GPSC01202115 Assistant Professors in Government College in Chemistry (Organic) Completed 2021-04-10 |

| | | |
|---|-----------------------------|---|
| 1 | Question Description | What is the observed rotation when 0.1 M solution of (<i>R</i>)-butan-2-ol is mixed with an equal volume of a 0.05 M solution of racemic butan-2-ol and the resulting solution is taken in a cell of 5 cm long tube in a polarimeter? The specific rotation of (<i>R</i>)-butan-2-ol is +13.9°. |
| | A | +0.026° |
| | B | +0.26° |
| | C | +2.6° |
| | D | +1.3° |
| | Correct Answer | A |
| | Marks | 1 |

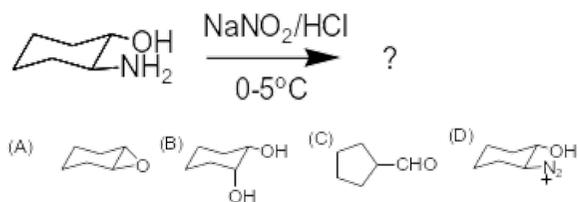
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| | |
|-----------------------------|--|
| Question Description | The most suitable reagents for synthon \oplus COOEt is |
| A | HCOOEt |
| B | Et ₂ CO ₃ |
| C | ClCOOEt |
| D | CO ₂ /EtOH |
| Correct Answer | C |
| Marks | 1 |

3

Question Description

The major product of the following reaction is



A

A

B

B

C

C

D

D

Correct Answer

C

Marks

1

4

Question Description

The most suitable reagent for the synthesis of m-nitro aniline from m-dinitro benzene is

A

Sn/HCl

B

FeSO₄/ NH₄OH

C

ammonium polysulfide

D

H₂/ Pd-C

Correct Answer

C

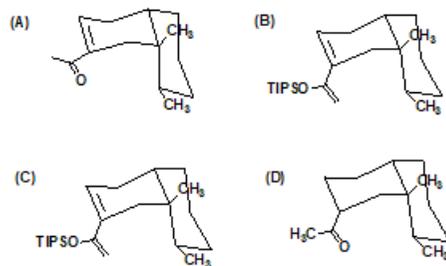
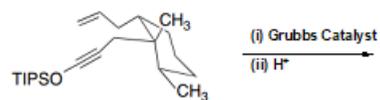
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5

Question Description

The structure of the following RCM reaction is _____



A

A

B

B

C

C

D

D

Correct Answer

A

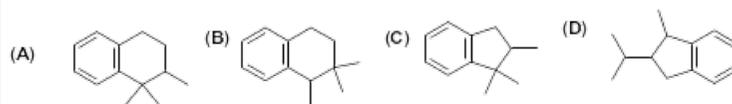
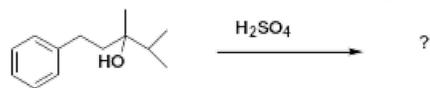
Marks

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6

Question Description

The final product of the following reaction is _____



A

A

B

B

C

C

D

D

Correct Answer

A

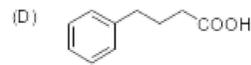
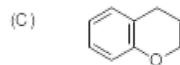
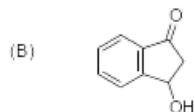
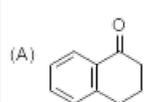
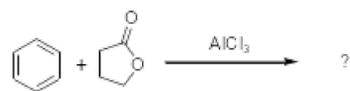
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7

Question Description

Predict the structure of the major product.



A

A

B

B

C

C

D

D

Correct Answer

A

Marks

1

| | | |
|---|-----------------------------|---|
| 8 | Question Description | What will be the major product when indole is treated with CHCl_3 and aqueous KOH ? |
| | A | 2-chloro indole |
| | B | 3-chloroquinoline |
| | C | 2-chloroquinoline |
| | D | 3-chloroindole |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|---|-----------------------------|--|
| 9 | Question Description | Predict the absolute configuration of the following compound |
| | | |
| | A | (i) <i>S</i> - (ii) <i>R</i> - (iii) <i>R</i> |
| | B | (i) <i>R</i> - (ii) <i>R</i> - (iii) <i>R</i> |
| | C | (i) <i>S</i> - (ii) <i>S</i> - (iii) <i>R</i> |
| | D | (i) <i>S</i> - (ii) <i>R</i> - (iii) <i>S</i> |
| | Correct Answer | A |
| | Marks | 1 |

| | | |
|----|-----------------------------|---|
| 10 | Question Description | An enantioselective reaction predominantly yields (+)-2-bromobutane with 10% contamination of (-)-2-bromobutane. If the specific rotation of (-)-2-bromobutane is -23.13° , the observed specific rotation of a sample of the product mixture would be |
| | A | -20.8° |
| | B | $+18.5^\circ$ |
| | C | $+20.8^\circ$ |
| | D | -4.6° |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 11 | Question Description | Among the compounds given below, the one that can be used as a formyl anion equivalent (in the presence of a strong base) is |
| | A | ethylene |
| | B | nitroethane |
| | C | 1,3-dithiane |
| | D | 1,4-dithiane |
| | Correct Answer | C |
| | Marks | 1 |

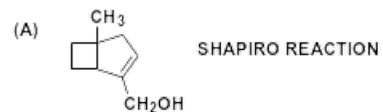
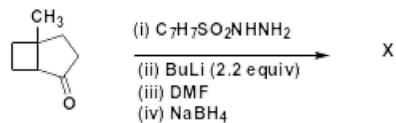
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| 12 | Question Description | The structure of the product formed is _____, when benzoquinone is allowed to react with 1,2 diphenyl acetylene is allowed to react under photochemical condition. |
| | | |
| | A | A |
| | B | B |
| | C | C |
| | D | D |
| | Correct Answer | A |
| | Marks | 1 |

| | | |
|----|-----------------------------|---|
| 13 | Question Description | The highest rate of reaction of the following compounds towards EtMgBr. |
| | A | CH ₃ CHO |
| | B | PhCOCH ₃ |
| | C | allyl bromide |
| | D | CH ₃ COOCH ₂ Ph. |
| | Correct Answer | A |
| | Marks | 1 |

14

Question Description

Fill in the blank: The structure of X is _____; name of the reaction is _____



A A

B B

C C

D D

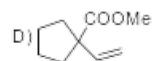
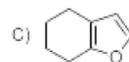
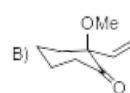
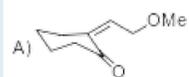
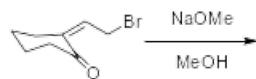
Correct Answer A

Marks 1

15

Question Description

Predict the structure of the major product formed in the following reaction

**A**

A

B

B

C

C

D

D

Correct Answer

D

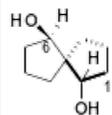
Marks

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16

Question Description

What is the absolute configuration of the following compound?

**A**

1R,5R,6S

B

1R,5R,6R

C

1R,5S,6S

D

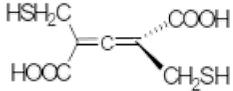
1S,5R,6S

Correct Answer

A

Marks

1

| | | |
|----|-----------------------------|--|
| 17 | Question Description | The absolute configuration of the compound A is  |
| | A | R |
| | B | S |
| | C | E |
| | D | Z |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|----|-----------------------------|-------------------------------------|
| 18 | Question Description | The primary precursor of NYLON 6 is |
| | A | 1,5-pentane-dicarboxylic acid |
| | B | 1,6-hexane-dicarboxylic acid |
| | C | tartaric acid |
| | D | succinic acid |
| | Correct Answer | B |
| | Marks | 1 |

19

Question Description

A δ -methyl group of an alcohol can be converted to an aldehyde functionality by converting the alcohol to _____ derivative followed by photo-irradiation and hydrolysis. The main reaction is called _____ reaction.

A

amine to diazo; Hell-Volhard-Zelinsky Reaction

B

nitrite; Barton reaction

C

carbonate; McMurry Reaction

D

orthoformate; McMurry Reaction

Correct Answer

B

Marks

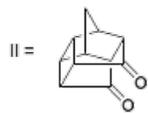
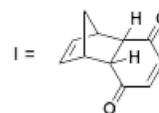
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Question Description

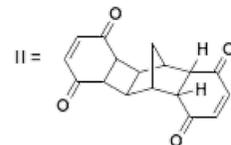
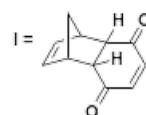
Predict the structure of I and II for the below mentioned reaction.



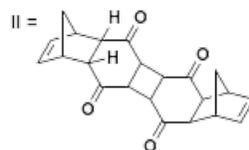
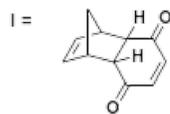
(A)



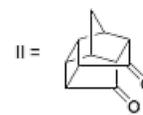
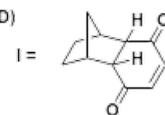
(B)



(C)



(D)



A

A

B

B

C

C

D

D

Correct Answer

A

Marks

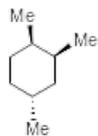
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| | | |
|----|-----------------------------|---|
| 21 | Question Description | A pumpkin shaped and a vase shaped cavitands are, _____ & _____, respectively. |
| | A | Calixarene, cucurbituril |
| | B | cucurbituril, calixarene |
| | C | cyclodextrin, calixarene |
| | D | cyclodextrin, cucurbituril |
| | Correct Answer | B |
| | Marks | 1 |
| 22 | Question Description | Reduction of nitrobenzene in Zn/HCl gives ----- and in Zn/NH ₄ Cl gives -----, respectively. |
| | A | C ₆ H ₅ NH ₂ and C ₆ H ₅ NHOH |
| | B | C ₆ H ₅ NHOH and C ₆ H ₅ NH ₂ |
| | C | C ₆ H ₅ NH ₂ in both cases |
| | D | C ₆ H ₅ NHOH in both cases |
| | Correct Answer | A |
| | Marks | 1 |

23

Question Description

The additional energy cost due to 1,3-diaxial interaction in the more stable conformation of *cis*-2-*trans*-4-trimethyl cyclohexane in Kcal/mole is



A 1.8

B 3.6

C 2.7

D 0

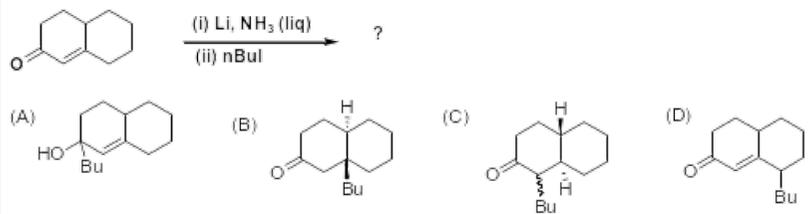
Correct Answer A

Marks 1

24

Question Description

Predict the major product of the following reaction.



A

B

C

D

Correct Answer

Marks

A

B

C

D

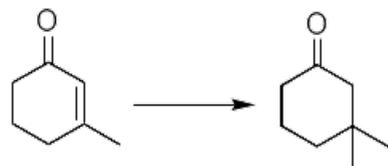
C

1

25

Question Description

The most suitable reagent for the following conversion is

**A**Me₂CuLi**B**Me₂Zn**C**

MeMgBr

D

MeLi

Correct Answer

A

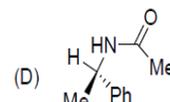
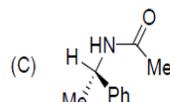
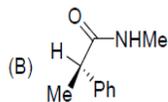
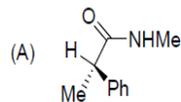
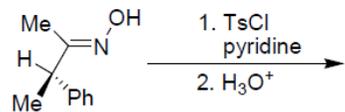
Marks

1

26

Question Description

The major product formed in the following reaction is



A

A

B

B

C

C

D

D

Correct Answer

C

Marks

1

27

Question Description

Identify the mechanism

**A**

[1,3] sigmatropic rearrangement

B

[1,5]- sigmatropic rearrangement

C

Claisen rearrangement

D

Cope rearrangement

Correct Answer

C

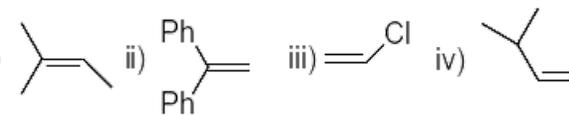
Marks

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28

Question Description

The descending order of the ease of HBr addition on the following compounds is



A

i>ii>iv>iii

B

ii>iii>i>iv

C

ii>i>iv>iii

D

i>ii>iii>iv

Correct Answer

C

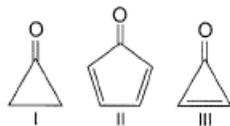
Marks

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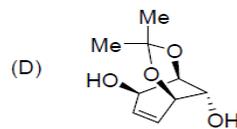
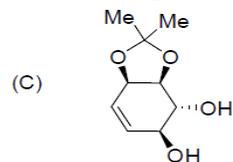
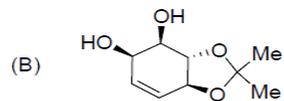
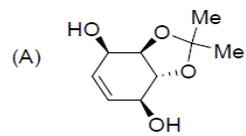
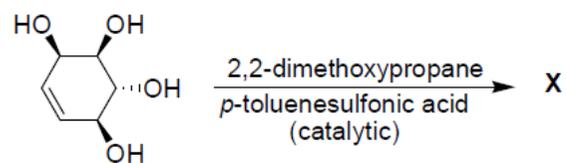
Question Description

Arrange the following compounds in increasing order of polarity

**A** I<II<III**B** III<II<I**C** II<I<III**D** III<I<II**Correct Answer** C**Marks** 1

Question Description

The major product X formed in the reaction given below is



A A

B B

C C

D D

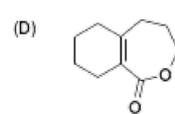
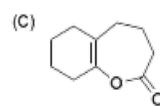
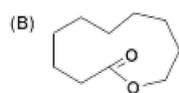
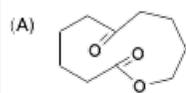
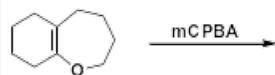
Correct Answer C

Marks 1

31

Question Description

Predict the product



A

A

B

B

C

C

D

D

Correct Answer

A

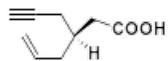
Marks

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32

Question Description

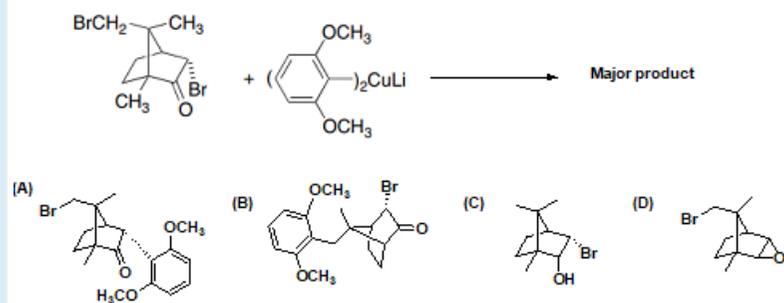
The IUPAC name of the following compound is _____

**A** (S)-3-(prop-2-ynyl)hex-5-enoic acid**B** (R)-3-(prop-2-ynyl)hex-5-enoic acid**C** (S)-2-(prop-3-ynyl)hex-5-enoic acid**D** (R)-2-(prop-3-ynyl)hex-5-enoic acid**Correct Answer** A**Marks** 1

33

Question Description

Choose the correct structure of the major product of the below mentioned reaction.



A

A

B

B

C

C

D

D

Correct Answer

A

Marks

1

34

Question Description

Which one of the following statements is incorrect?

A pseudoasymmetric carbon _____

A

is stereogenic

B

is chiral

C

is a part of a meso compound

D

always possess a plane of symmetry

Correct Answer

B

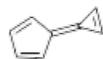
Marks

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35

Question Description

What is true about the compound calicene?

**A**

It is highly soluble in water

B

It exists mainly as dipolar ion with +ve charge in the three membered ring while -ve charge in five membered ring

C

It exists mainly as dipolar ion with +ve charge in the five membered ring while -ve charge in three membered ring

D

in solution it shows very high electrical conductivity

Correct Answer

B

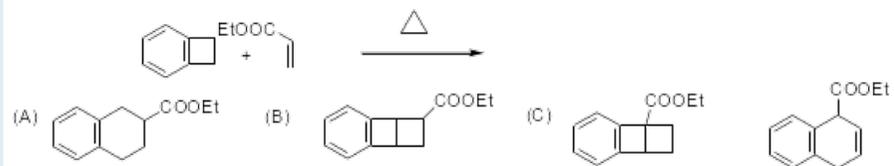
Marks

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36

Question Description

The major product of the following reaction is _____



A

A

B

B

C

C

D

D

Correct Answer

A

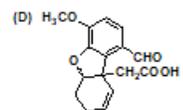
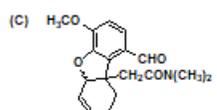
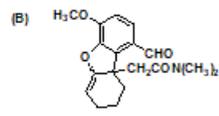
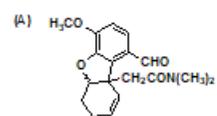
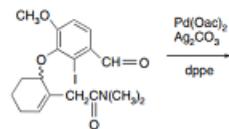
Marks

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37

Question Description

The product of following coupling reaction is



A

A

B

B

C

C

D

D

Correct Answer

A

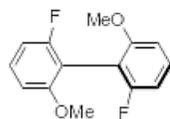
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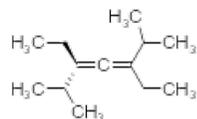
38

Question Description

Which statement is correct?



A



B

A

Both A and B are optically active

B

A can be optically active but not B

C

B can be optically active but not A

D

Both A and B are optically inactive.

Correct Answer

C

Marks

1

39

Question Description

Compound A on oxidation in presence of HNO_3 gives B, which on reaction with C (a water soluble compound which on heating followed by addition of aqueous CuSO_4 and NaOH gives violet color) gives 5,5-diphenylhydantoin. Compound A and C are _____ and _____ respectively.

A

Benzaldehyde, semicarbazide

B

benzoin, urea

C

benzil, urea

D

benzyl, semicarbazone

Correct Answer

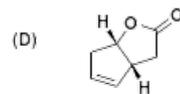
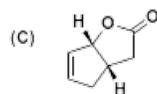
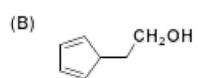
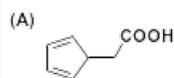
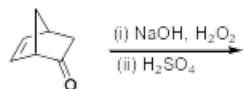
B

Marks

1

Question Description

The structure of the major product formed in the below mentioned reaction.



A

A

B

B

C

C

D

D

Correct Answer

C

Marks

1

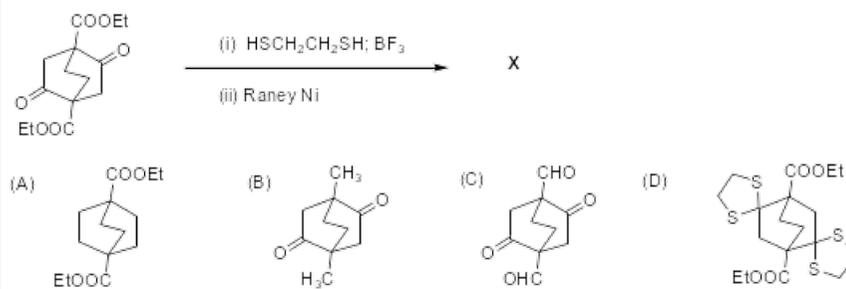
41

| | |
|-----------------------------|---|
| Question Description | Which of the following cyclohexane derivatives readily forms anhydride? |
| A | <i>cis</i> -cyclohexane-1,3-dicarboxylic acid |
| B | <i>trans</i> -cyclohexane-1,3-dicarboxylic acid |
| C | <i>trans</i> -cyclohexane-1,2-dicarboxylic acid |
| D | <i>trans</i> -cyclohexane-1,4-dicarboxylic acid |
| Correct Answer | A |
| Marks | 1 |

42

Question Description

Predict the structure of X in the below mentioned reaction.



A

A

B

B

C

C

D

D

Correct Answer

A

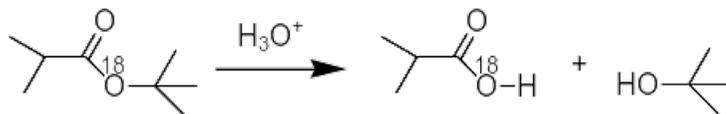
Marks

1

43

Question Description

Predict the type of mechanism involved in the following ester hydrolysis reaction.

**A**

AAc2

B

AAc1

C

AA11

D

BAc2

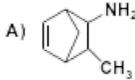
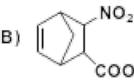
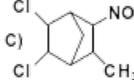
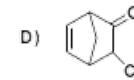
Correct Answer

C

Marks

1

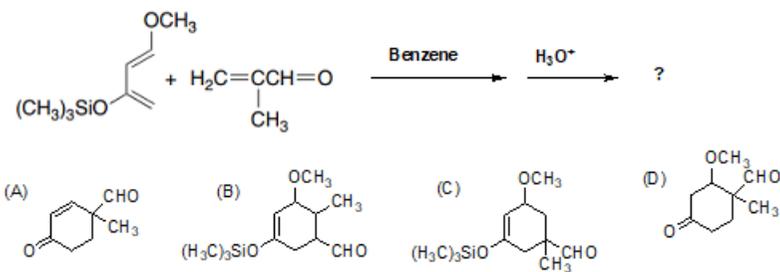
| | | |
|----|-----------------------------|--|
| 44 | Question Description | An amine group can be removed from the aromatic ring by diazotization followed by addition of _____. |
| | A | H_3O^+ |
| | B | H_3PO_2 |
| | C | dil. NH_4OH |
| | D | benzene |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 45 | Question Description | The product of the following reaction is  A)  B)  C)  D)  |
| | A | A |
| | B | B |
| | C | C |
| | D | D |
| | Correct Answer | D |
| | Marks | 1 |

46

Question Description

Predict the structure of the final product



A

A

B

B

C

C

D

D

Correct Answer

A

Marks

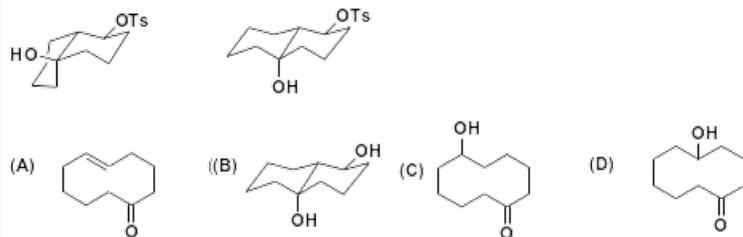
1

47

| | |
|-----------------------------|--|
| Question Description | When NaNO_2 solution is added to an ice cold solution of N,N-dimethylaniline in dil. HCl, the product formed is |
| A | $[\text{C}_6\text{H}_5\text{NMe}_2\text{NO}]^+$ |
| B | <i>o</i> -nitroso N,N-dimethylaniline |
| C | <i>p</i> -nitroso N,N-dimethylaniline |
| D | $\text{Me}_2\text{NC}_6\text{H}_4\text{-N=N- C}_6\text{H}_4\text{NMe}_2$ |
| Correct Answer | C |
| Marks | 1 |

Question Description

Following compounds give the same product when treated with a base. Identify the product.



A A

B B

C C

D D

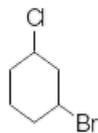
Correct Answer A

Marks 1

49

Question Description

The total number of possible stereoisomers in the following molecule are

**A**

8

B

4

C

2

D

0

Correct Answer

B

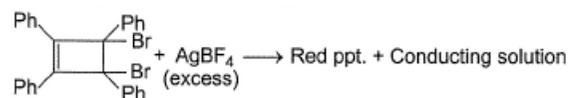
Marks

1

50

Question Description

The following compound, when treated with excess of AgBF_4 gives a red precipitate leaving a highly conducting filtrate, due to

**A**

A dianion aromatic system is formed

B

A dication aromatic system is formed

C

A covalent ditetrafluoroborate compound is formed

D

An aromatic salt precipitate which is red coloured

Correct Answer**B****Marks****1**

51

Comprehension

Read the following passage and answer the questions given below:

The examination system is both an opiate and a poison. It is an opiate because it lulls us into believing that all is well when most is ill. 'Look,' the public says, 'at this list of scholarships; see how many children have got their School Certificates: something is happening; the school is doing its job.' Something no doubt is happening; but it may not be education: it may be the administration of a poison which paralyses or at least slows down the natural activities of the healthy mind. The healthy human being finding himself a creature of unknown capacities in an unknown world, wants to learn what the world is like, and what he should be and do in. To help him in answering these questions is the one and only purpose of education.

Question Description

As an opiate and a poison, the examination system respectively

A

paralyses or slows down natural activities and lulls the healthy mind

B

lulls the healthy mind and paralyses or slows down its physical activities

C

paralyses or slows down natural activities and lulls the mind

D

lulls the healthy mind and paralyses or slows down its natural activities

Correct Answer

D

Marks

1

52

Comprehension

Read the following passage and answer the questions given below:

The examination system is both an opiate and a poison. It is an opiate because it lulls us into believing that all is well when most is ill. 'Look,' the public says, 'at this list of scholarships; see how many children have got their School Certificates: something is happening; the school is doing its job.' Something no doubt is happening; but it may not be education: it may be the administration of a poison which paralyses or at least slows down the natural activities of the healthy mind. The healthy human being finding himself a creature of unknown capacities in an unknown world, wants to learn what the world is like, and what he should be and do in. To help him in answering these questions is the one and only purpose of education.

Question Description

Complete the following statement using a suitable option from among those provided below:

The overall passage implies that the public is impressed with the misconception

A

created by the list of scholarships

B

that the school is doing its job

C

that good education is being imparted

D

that something is happening

Correct Answer

C

Marks

1

Comprehension

Read the following passage and answer the questions given below:

The examination system is both an opiate and a poison. It is an opiate because it lulls us into believing that all is well when most is ill. 'Look,' the public says, 'at this list of scholarships; see how many children have got their School Certificates: something is happening; the school is doing its job.' Something no doubt is happening; but it may not be education: it may be the administration of a poison which paralyses or at least slows down the natural activities of the healthy mind. The healthy human being finding himself a creature of unknown capacities in an unknown world, wants to learn what the world is like, and what he should be and do in. To help him in answering these questions is the one and only purpose of education.

Question Description

The statement "The examination system lulls us into believing that all is well when most is ill" implies that it makes us falsely confident and relaxed that

A

all is not well with it, some is ill.

B

nothing is ill in it, when most is.

C

most is well with it, when some is ill.

D

most is ill with it, some is well.

Correct Answer

B

Marks

1

54

Comprehension

Read the following passage and answer the questions given below:

The examination system is both an opiate and a poison. It is an opiate because it lulls us into believing that all is well when most is ill. 'Look,' the public says, 'at this list of scholarships; see how many children have got their School Certificates: something is happening; the school is doing its job.' Something no doubt is happening; but it may not be education: it may be the administration of a poison which paralyses or at least slows down the natural activities of the healthy mind. The healthy human being finding himself a creature of unknown capacities in an unknown world, wants to learn what the world is like, and what he should be and do in. To help him in answering these questions is the one and only purpose of education.

Question Description

The term 'opiate' is used in the passage to suggest its ----- effect.

A

narcotic

B

addictive

C

analgesic

D

social

Correct Answer

A

Marks

1

Comprehension

Read the following passage and answer the questions given below:

The examination system is both an opiate and a poison. It is an opiate because it lulls us into believing that all is well when most is ill. 'Look,' the public says, 'at this list of scholarships; see how many children have got their School Certificates: something is happening; the school is doing its job.' Something no doubt is happening; but it may not be education: it may be the administration of a poison which paralyses or at least slows down the natural activities of the healthy mind. The healthy human being finding himself a creature of unknown capacities in an unknown world, wants to learn what the world is like, and what he should be and do in. To help him in answering these questions is the one and only purpose of education.

Question Description

As per the passage, the sole objective of education is to help an individual

A

find himself in the unknown world and enjoy it well.

B

know the world, himself and live ideally well in the world.

C

know the world, his ideal potential and function in the world.

D

reveal his unknown capacities in an unknown world.

Correct Answer

C

Marks

1

| | | |
|----|-----------------------------|--|
| 56 | Question Description | The first multi-purpose river valley project in India has been built on which of the following rivers? |
| | A | Kaveri |
| | B | Godavari |
| | C | Damodar |
| | D | Koyna |
| | Correct Answer | C |
| | Marks | 1 |

| | | |
|----|-----------------------------|---|
| 57 | Question Description | Which of these organizations manages internet protocol numbers and Domain Name Systems roots? |
| | A | IUCN |
| | B | ICANN |
| | C | IUPAC |
| | D | IAEA |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 58 | Question Description | How many languages does the Indian Constitution recognise? |
| | A | 18 |
| | B | 22 |
| | C | 24 |
| | D | 25 |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 59 | Question Description | Pradhanmantri Suraksha Bima Yojana launch in which year? |
| | A | 2014 |
| | B | 2015 |
| | C | 2020 |
| | D | 2019 |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 60 | Question Description | Which is the largest tiger reserve in India? |
| | A | Corbett |
| | B | Nagarjuna |
| | C | Manas |
| | D | screw |
| | Correct Answer | A |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 61 | Question Description | Which state is known as 'Scotland of the East' in India? |
| | A | Assam |
| | B | Tripura |
| | C | Manipur |
| | D | Meghalaya |
| | Correct Answer | D |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 62 | Question Description | Where is Kanha National Park located in India? |
| | A | Assam |
| | B | Rajasthan |
| | C | Uttar Pradesh |
| | D | Madhya Pradesh |
| | Correct Answer | D |
| | Marks | 1 |
| 63 | Question Description | Which of the following is the largest railway junction in India? |
| | A | Delhi |
| | B | Bhatinda |
| | C | Mathura |
| | D | Allahabad |
| | Correct Answer | C |
| | Marks | 1 |

| | | |
|----|-----------------------------|---|
| 64 | Question Description | National Library, the largest library in India is in which state? |
| | A | Rajasthan |
| | B | Bihar |
| | C | West Bengal |
| | D | Tamil Nadu |
| | Correct Answer | C |
| | Marks | 1 |

| | | |
|----|-----------------------------|---|
| 65 | Question Description | Fulhar lake is located in which state of India? |
| | A | Uttarakhand |
| | B | Bihar |
| | C | Madhya.Pradesh. |
| | D | Uttar Pradesh |
| | Correct Answer | D |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 66 | Question Description | <p>Division A has 30% more students than division B</p> <p>Division C has 30 % less students than division B</p> <p>Division A has lesser students than division C</p> <p>If the first two statements are true then the third statement is</p> |
| | A | True |
| | B | False |
| | C | Uncertain |
| | D | |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 67 | Question Description | <p>R1, R2, R3, R4, R5, R6, R7 are seven places on a map. The following places are connected by two-way roads: R1 and R2; R1 and R6; R3 and R6; R3 and R4; R6 and R7; R4 and R5; R2 and R3; R5 and R7. No other road exists. The shortest route (the route with the least number of intermediate places) from R1 to R7 is:-</p> |
| | A | $R1 - R3 - R7$ |
| | B | $R1 - R5 - R7$ |
| | C | $R1 - R2 - R3 - R6 - R7$ |
| | D | $R1 - R6 - R7$ |
| | Correct Answer | D |
| | Marks | 1 |

Question Description

Four friends, namely, Liyaqat, Lillian, Lima and Lalit are sitting on a horizontally placed wooden bench, all looking towards the same direction.

If:

- i. There is at least one person sitting between Lillian and Lima;
- ii. Liyaqat is towards the right of Lima but not towards the right of Lalit;
- iii. Lalit is seated immediately next to Lillian; &
- iv. Lima is seated at one of the extreme corners of the bench.

Which of the following is definitely true?

A

Lillian and Liyaqat are seated immediately next to one another.

B

Liyaqat is seated at one of the extreme corners of the bench.

C

There is at least one person seated between Lalit and Liyaqat.

D

There is at least one person seated between Lalit and Lima.

Correct Answer

D

Marks

1

69

Question Description

Ruby has 4 children. Two of the children have blue eyes and two of the children have brown eyes
Half of the children are girls
Which of the following statement is true

A

Among any three children, at least one girl has brown eyes

B

Among any three children, at least two girls has blue eyes

C

At least on girl has blue eyes

D

At least one boy has brown eyes

Correct Answer

A

Marks

1

70

Question Description

Four packets P, Q, R and S, three wallets A, B and C are kept on a table one after the other in a row from left to right. Wallet C has as many items to its left as to its right. No packet is at any extreme end of the row. Packet P is kept to the immediate left of packet R.

Packet P is to the immediate right of wallet A.

What is kept third from left end of the row on the table?

A

C

B

S

C

R

D

A

Correct Answer

C

Marks

1

71

Question Description

If $a+b$ means a is sister of b,
 $a-b$ means a is brother of b,
 $a \times b$ means a is daughter of b,
 $a \div b$ means a is mother of b,
Which of the following relationship shows that p and r are wife and husband?

A

$p \div q \times r$

B

$p - q \times r$

C

$p + q \times r$

D

$p + q - r$

Correct Answer

A

Marks

1

72

Question Description

Here are some words translated from artificial language

Lapikaki means fruitcake

Kakibali means cakewalk

Malapalav means buttercup

Which word could mean “Fruitcup”

A

Palavkaki

B

Kakipalav

C

Lapibali

D

Lapipalav

Correct Answer

D

Marks

1

| | | |
|----|-----------------------------|--|
| 73 | Question Description | 60 men can dig 40 holes in 32 days. How long will 30 men take to dig 20 holes? |
| | A | 15 days |
| | B | 16 days |
| | C | 10 days |
| | D | 18 days |
| | Correct Answer | B |
| | Marks | 1 |

| | | |
|----|-----------------------------|--|
| 74 | Question Description | 125 small but identical cubes have been put together to form a large cube. How many such small cubes will be required to cover this large cube completely? |
| | A | 208 |
| | B | 212 |
| | C | 254 |
| | D | 218 |
| | Correct Answer | D |
| | Marks | 1 |

75

| | |
|-----------------------------|---|
| Question Description | Find a pair that has similar relationship to frame: picture |
| A | Binding: book |
| B | Teacher: read |
| C | Artist: drawing |
| D | Mother: child |
| Correct Answer | A |
| Marks | 1 |