National Testing Agency

Question Paper Name: 5231 Online Refresher Course in Chemistry for Higher Education Faculty 30th June 2019 Shift 1

Subject Name: Online Refresher Course in Chemistry for Higher Education Faculty

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Online Refresher Course in Chemistry for Higher Education Faculty

Group Number:

Group Id: 489994177

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Group Minimum Duration:

Revisit allowed for view?:

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Revisit allowed for edit?:

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Break time:

0
Group Marks:

Online Refresher Course in Chemistry for Higher Education Faculty

Section Id: 489994233

Section Number :1Section type :OnlineMandatory or Optional:MandatoryNumber of Questions:100Number of Questions to be attempted:100Section Marks:100Display Number Panel:YesGroup All Questions:No

Sub-Section Number: 1

Sub-Section Id: 489994250

Question Shuffling Allowed: Yes

Question Number : 1 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is one of the goals of OPCW?

a. Preparation of safe chemical weapons

- b. Prevention on usage of plastics
- c. Destruction of all existing chemical weapons
- d. Taking measures to stop the depletion of ozone layer

- 1. 1
- 2.2
- 3.3

4.	4
Quo No	estion Number: 2 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Option Orientation: Vertical
Coı	rect Marks: 1 Wrong Marks: 0
W	no won the first Nobel Prize in Organic Chemistry?
a.	Otto Wallach
b.	Victor Grignard
C.	Richard Willstatter
d.	Emil Fischer
Opt	tions:
1.	1
2. :	2
3. 3	3
4.	4
	rect Marks: 1 Wrong Marks: 0 to is considered to be the Father of Chemistry? Ernest Rutherford Antoine-Laurent de Lavoisier
C.	Dmitri Ivanovich Mendeleev
d.	John Dalton FRS
Opt	tions:
1.	1
2. :	2
3. 3	3
4.	4
Quo No	estion Number : 4 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : Option Orientation : Vertical
Coı	rect Marks: 1 Wrong Marks: 0
Alf	red Nobel commercialized the use of dynamite as an explosive shaped into
a.	Grannular form

- b. Rod form
- c. Sheet form
- d. Liquid form

Options:

- 1. 1
- 2.2
- 3.3
- 4.4

 $\label{eq:Question Number: Yes Single Line Question Shuffling: No \ Display \ Question \ Number: Yes \ Single \ Line \ Question \ Option \ Crientation: Vertical$

"Nobel Prize" is awarded in the memory of
a. Emil Nobel
b. Alfred Bernhard Nobel
c. Immanuel Nobel
d. Ludwig Nobel
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 6 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks: 1 Wrong Marks: 0
Name the chemical irritant that leads to tears when onions are chopped:
a. Syn-propanethial-S-Oxide
b. Sulphuric Acid
c. Acetic Acid
d. Hydrochloric Acid
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 7 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
No Option Orientation : Vertical
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning?
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options:
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2 3. 3
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 8 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 8 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 8 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 8 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 MOOC stands for
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 8 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 MOOC stands for a. Massive Open Online Course
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 8 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 MOOC stands for a. Massive Open Online Course b. Massive Online Open Course
No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false about e-learning? a. e-learning means Electronic Learning b. ICT enabled education c. Chalk and Talk learning d. Multimedia enriched learning Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 8 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 MOOC stands for a. Massive Open Online Course b. Massive Online Open Course c. Mass Open Online Course

2. 2	2	
3. 3	3	
4. 4		
•	•	
Que No	stion Opti	Number: 9 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical
Cor	rect I	Marks: 1 Wrong Marks: 0
Wh	ich of	f the following in not a characteristic of chalk and talk method?
a.	Lear	rner centric approach
b.	Pres	sumes that all the students learn in identical fashion
c.	Mor	nologue method
d.	Slov	v and time consuming
Opt	ions	:
1. 1	L	
2. 2	2	
3. 3		
4. 4		
٦	1	
No	Opti	Number: 10 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical
		Marks: 1 Wrong Marks: 0
Red	list c	ompounds are those
8		Vhich are red in color
		Which should not be drained out directly in sink
3	c. V	Which have low melting point
	d. V	Which are soluble in water and hence environment friendly
Opt	ions	
1. 1	l	
2. 2	2	
3. 3	3	
4. 4	4	
No	Opti	Number: 11 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical
Cor	rect I	Marks: 1 Wrong Marks: 0
Wh	ich o	f the following combination should not be stored as waste together in the same container?
	a.	Chloroform and Acetone
	b.	Ethyl alcohol and Benzyl alcohol
	C.	Ethanol and Acetone
	d.	Benzaldehyde and Benzophenone
Opt	ions	
1. 1	L	
2. 2	2	
3. 3	3	

 $Question\ Number: 12\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 1 Wrong Marks: 0

How	many types of stem cells were discussed in the module entitled 'Introduction to the Stem Cell
	ts Applications in Regenerative Medicine'?
a.	Two
b.	
	Four
C.	
a.	Five
Option	ns:
1. 1	
2. 2	
3. 3	
4. 4	
No Op	ion Number: 13 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: ption Orientation: Vertical ct Marks: 1 Wrong Marks: 0
	s pH expressed?
	$pH = \log_{10}(C_{H^+})$
	$pH = -1/\log_{10}(C_{H^{+}})$ $pH = -1/\log_{10}(C_{H^{+}})$
	$pH = -2\log_{10}(C_{H^{+}})$ $pH = -2\log_{10}(C_{H^{+}})$
	$pH = -\log_{10}(c_{H^{+}})$ $pH = -\log_{10}(a_{H^{+}})$
u.	$p_{11} = -10g_{10}(a_{H^{+}})$
Option	ns:
1. 1	
2. 2	
3. 3	
4. 4	
1. 1	
No Op	ion Number : 14 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : ption Orientation : Vertical ct Marks : 1 Wrong Marks : 0
For di	lute solutions, which of the following is true about activity coefficient?
a.	$\gamma \approx 1$
b.	$\gamma > 0$
c.	$\gamma < 1$
d.	$\gamma = 0$
0.4	
Option	18:
1. 1	
2. 2	
3. 3	
4. 4	
Questi No O ₁	ion Number: 15 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: ption Orientation: Vertical
Corre	ct Marks : 1 Wrong Marks : 0
The re	eaction constant rho in the Hammett equation represents
a.	The rate of the reaction
b.	The equilibrium constant of the reaction
c.	The sensitivity of the reaction to the substituents
d.	A STATE OF THE STA

1. 1	
2. 2	
3. 3	
4. 4	
No O	tion Number: 16 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Option Orientation: Vertical
	ect Marks: 1 Wrong Marks: 0
	o of the following was not awarded Nobel Prize "for the discovery and development of Conductive
	mers" in the year 2000?
	Alan Heeger
	Jack S Kilby
	Hideki Shirakawa
550	Alan MacDiarmid
Optio	ons:
1. 1	
2. 2	
3. 3	
4. 4	
Onest	tion Number: 17 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:
No O	Option Orientation : Vertical
	ect Marks: 1 Wrong Marks: 0
Whic	h of the following is true about doping in polymers?
a.	Doping in polymers is a redox process
b.	Doping results in decreased conductivity
c.	Doping results in electrons and holes as charge carriers
d.	Doping results in increased stability in polyacetylene
Optio	ons:
1. 1	
2. 2	
3. 3	
4. 4	
Onest	tion Number: 18 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:
No O	option Orientation : Vertical
	ect Marks : 1 Wrong Marks : 0 ally visible fingerprints are called –
a.	Latent fingerprints
b.	Plastic fingerprints
C.	Patent fingerprints
d.	Inked fingerprints
Optio	
Орио 1. 1	nis .
2. 2	
2. Z 3. 3	
4. 4	
0	
Quest No O	tion Number: 19 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:

Which	parameter is used for primary classification of fingerprints?
	Core and delta
b.	Fingerprint characters
c.	Shape of sweat pores
	Outer pattern
Options	
1. 1	
2. 2	
3. 3	
4. 4	
No Opti	Number: 20 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical Marks: 1 Wrong Marks: 0
	ond Nobel Prize was awarded to Madam Marie Curie in 1911 for her contribution in
a.	the extraction of Radium from pitchblende
b.	the extraction of Polonium from Uranium ore
c.	the advancement of chemistry by the discovery of Radium and Polonium
d.	the advancement of chemistry by the discovery of Radium and Actinium
Options	•
1. 1	
2. 2	
3. 3	
4. 4	
No Opti	Number: 21 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical Marks: 1 Wrong Marks: 0
No Opti Correct	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately?
No Opti Correct	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity
No Opti Correct Which o a. b.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density
No Opti Correct: Which of a. b.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen
No Opti Correct: Which of a. b.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density
No Opti Correct: Which of a. b.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density
No Opti Correct: Which of a. b. c. d. Options 1. 1	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density
No Opti Correct Which of a. b. c. d.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density
No Opti Correct: Which of a. b. c. d. Options 1. 1	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density
No Opti Correct : Which o a. b. c. d. Options 1. 1 2. 2	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density
No Opti Correct Which of a. b. c. d. Options 1. 1 2. 2 3. 3 4. 4 Question	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density
No Options 1. 1 2. 2 3. 3 4. 4 Question No Options	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density: : Number: 22 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:
No Opti Correct Mhich of a. b. c. d. Options 1. 1 2. 2 3. 3 4. 4 Question No Opti Correct Correct 1.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density: : Number: 22 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical
No Opti Correct Which of a. b. c. d. Options 1. 1 2. 2 3. 3 4. 4 Question No Opti Correct Pick out	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density: : Number: 22 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical Marks: 1 Wrong Marks: 0
No Opti Correct Which of a. b. c. d. Options 1. 1 2. 2 3. 3 4. 4 Question No Opti Correct Pick out	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density: : Number: 22 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical Marks: 1 Wrong Marks: 0 the best domestic fuel amongst the following: CNG PNG
No Opti Correct Which of a. b. c. d. Options 1. 1 2. 2 3. 3 4. 4 Question No Opti Correct Pick out a. b. c.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density : Number: 22 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical Marks: 1 Wrong Marks: 0 the best domestic fuel amongst the following: CNG PNG Kerosene oil
No Opti Correct Which of a. b. c. d. Options 1. 1 2. 2 3. 3 4. 4 Question No Opti Correct Pick out a. b. c.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density: : Number: 22 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical Marks: 1 Wrong Marks: 0 the best domestic fuel amongst the following: CNG PNG
No Opti Correct Which of a. b. c. d. Options 1. 1 2. 2 3. 3 4. 4 Question No Opti Correct Pick out a. b. c.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density: : Number: 22 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical Marks: 1 Wrong Marks: 0 the best domestic fuel amongst the following: CNG PNG Kerosene oil Diesel
No Opti Correct Which of a. b. c. d. Options 1. 1 2. 2 3. 3 4. 4 Question No Opti Correct Pick out a. b. c. d.	on Orientation: Vertical Marks: 1 Wrong Marks: 0 of the following describes the effects of Ocean Stratification most accurately? Changes in ocean acidity Changes in deep ocean water density Changes in surface ocean water density and further depletion of the oxygen Changes in only the surface ocean water density: : Number: 22 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: on Orientation: Vertical Marks: 1 Wrong Marks: 0 the best domestic fuel amongst the following: CNG PNG Kerosene oil Diesel

Question Number : 23 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

The magnitude of kinetic isotope effect will

- a. Decrease with decrease in temperature
- b. Increase with decrease in the temperature
- c. Will not change with temperature
- d. Can increase or decrease with decrease in the temperature

Options:

- 1. 1
- 2.2
- 3.3
- 4. 4

Question Number: 24 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Which one of the following statements is correct?

- a. 4-nitrophenol is less acidic than ethanol
- b. Phenol is more acidic than 2,2-dimethylpropan-1-ol
- c. Phenol is more acidic than benzoic acid
- d. CH3COOH is less acidic than phenol

Options:

- 1. 1
- 2. 2
- 3. 3
- 4.4

Question Number: 25 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Which is the correct order of increasing pKa values for following acids?

- a. II <I < III <IV
- b. III < I < II < IV
- c. | < | | < | | < | | V
- d. III < IV < I < II

- 1.1
- 2.2
- 3.3
- 4.4

No Opt	n Number : 26 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : ion Orientation : Vertical
	Marks: 1 Wrong Marks: 0
In brow	n ring test, the oxidation state of Fe changes from two to
a.	Three
b.	One
c.	Four
d.	Remains same
Options	::
1. 1	
2. 2	
3. 3	
4. 4	
No Opt	n Number : 27 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : ion Orientation : Vertical Marks : 1 Wrong Marks : 0
Which	one of the following compounds will not give dark colouration with neutral ferric chloride solution?
a.	1-naphthol
b.	o-Cresol
C.	Benzyl alcohol
d.	Phloroglucinol
Options	
1. 1	
2. 2	
3. 3	
4. 4	
Questio No Ont	n Number : 28 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : ion Orientation : Vertical
-	Marks: 1 Wrong Marks: 0
	ionophore is highly selective for K ⁺ ion?
a.	Valinomycin
b.	Nonactin
С.	Vancomycin
d.	Nigericin
Options	
1. 1	
2. 2	
3. 3	
4. 4	
Questio No Opt	n Number : 29 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : ion Orientation : Vertical
Correct	Marks: 1 Wrong Marks: 0
Accord	ling to the modified Bloom's taxonomy, which of the following category is considered to be the highest
for the	learner:
a.	Create
b.	Evaluate

c. Apply d. Analyze

Options:

- 1. 1
- 2.2
- 3. 3

4.4

Question Number : 30 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which pedagogy for teaching has been exemplified in the Friedel Crafts reaction module?

- a. Flip-classroom model
- b. Virtual classroom model
- c. MOOCs model
- d. Face to face teaching model

Options:

- 1.1
- 2. 2
- 3.3
- 4.4

Question Number : 31 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which sequence best represents the synthesis of the following compound?

4-isopropylbenzonirtile

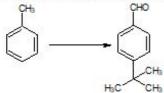
- a. 1. Benzene + HNO₃ + H₂SO₄ 2. (CH₃)₂CHCl, AlCl₃ 3. Fe, HCl 4. NaNO₂/HCl 5. CuCN
- b. 1. Benzene + (CH₃)₂CHCl, AlCl₃ 2. Br₂, FeBr₃ 3. KCN
- c. 1. Benzene + (CH₃)₂CHCl, AlCl₃ 2.HNO₃, H₂SO₄ 3.Fe, HCl 4. NaNO₂/HCl 5.KCN
- d. 1. Benzene + (CH₃)₂CHCl, AlCl₃ 2.HNO₃, H₂SO₄ 3. Fe, HCl 4.NaOH 5. NaNO₂, HCl, H₂O

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number : 32 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the correct order of steps used to carry out the following conversion?



a. 1. alk. KMnO₄ 2. Friedel Crafts reaction with (CH₃)₃CCl

b. 1. CrO₂Cl₂/H⁺ 2. Friedel Crafts reaction with (CH₃)₃CCl

c. 1. Friedel Crafts reaction with (CH₃)₃CCl 2. CrO₂Cl₂/H⁺

d. 1. Friedel Crafts reaction with (CH₃)₃CCl 2. alk. KMnO₄

Options:

1.1

2. 2

3.3

4. 4

Question Number : 33 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following is true about 3D printing?

a. 3D printers can print limited materials

b. 3D printers can print within limited size scale

3D printing has multifaceted applications like in food industries, medicines, automation etc.

d. 3D printing cannot be used to print big objects like houses

Options:

1.1

2.2

3.3

4.4

Question Number : 34 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Give the correct order when the following are arranged in the increasing order of their pKa values.

A: Cyclohexyl amine, B: phenylurea, C: aniline, D: diphenylamine

a. A > C > D > B

b. C>A>D>B

c. C>B>D>A

d. D>C>A>B

Options:

1. 1

2.2

3. 3

4.4

Question Number: 35 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

. Which of the following is not a correct sequence for basic strength of compounds in aqueous medium?
a. $(CH_3)_2NH > CH_3NH_2 > (CH_3)_3N$
b. $(C_2H_5)_2NH > (C_2H_5)_3N > C_2H_5NH_2$
c. CH ₃ NH ₂ > pyridine > aniline
d. aniline > pyrrole > pyridine
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 36 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks: 1 Wrong Marks: 0
Silver nitrate method of fingerprint detection fixes which of the following constituent of sweat?
a. Amino acids
b. Water
c. Carbohydrates
d. Chloride ions
Options:
1. 1
2. 2
3.3
4. 4
$Question\ Number: 37\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$
Correct Marks: 1 Wrong Marks: 0
Which method is used for detecting fingerprint on duct tape?
a. Powder method
b. Ninhydrin method
c. Phase transfer catalysis
d. Silver nitrate method
Options:
1. 1
2. 2
3.3
4. 4
Question Number : 38 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following represent the same compound?

a.

b.

C.

d.

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number : 39 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following is not an odd electron species?

- a. Radical-anion
- b. Radical
- c. Triplet carbene
- d. Radical-cation

Options:

- 1. 1
- 2.2
- 3. 3
- 4.4

Question Number: 40 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The radical-anion generated by transfer of electron to XY does not undergo following reaction?

- a. Coupling to give [XY]2 2-
- b. Disproportionation to give ½[XY]2-
- c. Oxidation to give [XY]
- d. Coupling to give XX

- 1. 1
- 2.2
- 3. 3

Question Number: 41 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:

No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

The following reaction is an example of

- a. Benzoin condensation
- b. Reduction of ester
- c. Acyloin condensation
- d. Oxidative coupling

Options:

- 1. 1
- 2.2
- 3.3
- 4.4

Question Number : 42 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

What is the correct order of calorific values for ethane, ethanol and ethanoic acid?

- a) Ethane > Ethanoic acid > Ethanol
- b) Ethane > Ethanol > Ethanoic acid
- c) Ethanoic acid > Ethane > Ethanol
- d) Ethane = Ethanol = Ethanoic acid

Options:

- 1. 1
- 2.2
- 3. 3
- 4.4

Question Number: 43 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The main contributor to global warming is:

- a) Nitrogen, as it is a major constituent in air.
- b) Carbon dioxide, because it stays in the atmosphere for a long time
- c) Water vapour, because of has a long life time
- d) Nitrous oxide, because of its high percentage in atmosphere

- 1. 1
- 2.2
- 3.3
- 4. 4

Question Number: 44 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Pick out the correct option.
Calorific value of ethane is the amount of energy released when:
a) One gram of ethane undergoes combustion.
b) One kilogram of ethane undergoes combustion
c) One mole of ethane undergoes combustion
d) One gram equivalent of ethane undergoes combustion
Options: 1. 1 2. 2 3. 3 4. 4
Question Number : 45 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0
Which of the following can be drained down safely?
a. Mineral oils
b. Hypochlorite solution
c. Cyanides
d. Biocides
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 46 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Substituent constant sigma (σ) in the Hammett equation
a. is a dimensionless quantity
b. has units of temperature
c. has units of molarity
d. has units of dipole moment
Options:
1. 1
2. 2
3. 3

Question Number: 47 Question Type: MCQ No Option Orientation: Vertical	Option Shuffling : No	Display Question Number : Yes	Single Line Question Option :
Correct Marks: 1 Wrong Marks: 0			

A non-linear Hammett plot may imply

- a. Lack of correlation with the substituent constants
- b. Temperature dependence of the reaction
- c. Hydrogen bonding with the solvent
- d. A change in the rate determining step

Options:

- 1. 1
- 2.2
- 3.3
- 4. 4

Question Number: 48 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

What was the theme of 30th anniversary of National Chemistry Week of American Chemical Society?

- a. Chemistry Rocks
- b. Chemistry for all
- c. Chemistry and Society
- d. Chemistry and development

Options:

- 1. 1
- 2. 2
- 3. 3
- 4.4

Question Number : 49 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

A new class of stereoisomerism has been found in which of the following complex?

- a. Porphyrin Boron
- b. Porphyrin Nitrogen
- c. Porphyrin Sulphur
- d. Porphyrin Phosphorus

Options:

- 1. 1
- 2. 2
- 3.3
- 4. 4

Question Number : 50 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following is responsible for excessive menace in the environment?	
a. Plastic	
b. Degradable polymers	
c. Silk	
d. Nitrogen	
Options:	
1. 1	
2. 2	
3. 3	
4. 4	
• •	
Question Number : 51 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Quest No Option Orientation : Vertical	ion Option :
Correct Marks: 1 Wrong Marks: 0	
Which of the following is a traditional teaching - learning method?	
a. Chalk and Talk	
b. Power Point Presentation	
c. MOOCs	
d. e-learning	
Options:	
1. 1	
2. 2	
3. 3	
4. 4	
Question Number : 52 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Quest No Option Orientation : Vertical	tion Option :
Correct Marks: 1 Wrong Marks: 0	
Which Indian got Nobel Prize in the year 1930?	
a. Sir C V Raman	
b. Prof. Hargobind Khorana	
c. Prof. Chandershekhar d. Prof. Venkataraman Ramakrishnan	
u. Proi. Venkataraman kamakrisinan	
Options:	
1. 1	
2. 2	
3. 3	
4. 4	
Question Number : 53 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Quest No Option Orientation : Vertical	ion Option :
Correct Marks: 1 Wrong Marks: 0	
What does not fall under the category of Static Content?	
a. Text	
b. Value additions	
c. Images	
d. Videos	
Ontions	
Options: 1. 1	
1. 1	

3. 3
4. 4
Question Number: 54 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
What SWAYAM stands for?
a. Study Webs of Active Learning for Young Aspiring Minds
b. Study Webs of Active Young Aspiring Minds
c. Study Webs of Active Learning for Youth and Aspiring Minds
d. Study Webs of Active Learning for Young Aspirational Minds
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 55 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Which of the following MOOCs are available on SWAYAM portal?
I. Self – paced courses
II. Certificate courses III. Credit courses
a. I and II
b. I and III
c. II and III
d. I, II and III
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 56 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
The activity coefficient of ions in an aqueous solution does not depend on:
a. Concentration of ions
b. Charge of the ions
c. Diameter of the ions
d. pH of the solution
Ontions
Options: 1. 1
2. 2
3. 3
4. 4
Question Number : 57 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0 How does the pH of pure water vary with increase in temperature? a. Increases b. Decreases c. No change d. Fluctuates **Options:** 1. 1 2.2 3.3 4.4 Question Number: 58 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 The accidental discovery in 1977 of conductivity in polymers was reported from doping of a. Polypyrrole b. Polythiophene c. Polyfuran d. Polyacetylene **Options:** 1. 1 2. 2 3.3 4.4 Question Number: 59 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following is false? a. Neutral solitons have spin b. Charged solitons carry no spin c. Solitons can be positively or negatively charged d. Bipolarons have spin **Options:** 1.1 2.2 3.3 4.4 Question Number: 60 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation : Vertical Correct Marks: 1 Wrong Marks: 0 Type III copolymer is the one where a. Energy gap of one component lies below the energy gap of another component b. Energy gap of one component lies above the energy gap of another component c. Energy gap of both components is same d. One component is semi-metallic and the other is a normal semi-conductor

3. 3
4. 4
Question Number: 61 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 The spreadsheet cannot be used in which of the following:
a. Document drafting
b. Plotting
c. Calculation
d. Data Handling
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 62 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
Which one of the following skills must not be a part of teacher's personality?
a. Time management
b. Ignoring formative assessment in teaching
c. Leadership skills
d. Problem solving
Options:
1. 1
2. 2
3.3
4. 4
Question Number: 63 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
How to dilute a concentrated acid safely?
a. Take acid in a beaker and pour water in it
 Add both acid and water together simultaneously in the container Take water in the beaker and then add acid in less amounts and correspondingly do the dilution.
d. Take acid, heat it and add water.
Options:
1. 1
2. 2
3.3
4. 4

Question Number: 64 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

When placed in a magnetic field, all the random spins of the nuclei

- a. stop
- b. align in the reverse direction
- c. align with the magnetic field in parallel and anti-parallel direction
- d. rotate to 90° away from the induced field

Options:

- 1.1
- 2. 2
- 3. 3
- 4.4

 $\label{eq:Question Number: 45 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical$

Correct Marks: 1 Wrong Marks: 0

How to read the burette reading for colored and colorless solutions with concave meniscus?

- a. Lower meniscus for colored solutions and upper meniscus for colorless solutions
- b. Average of upper meniscus and lower meniscus in both the cases
- c. Upper meniscus for colored solutions and lower meniscus for colorless solutions
- d. Both upper meniscus.

Options:

- 1. 1
- 2.2
- 3.3
- 4.4

Question Number : 66 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

The correct structure of the compound based on the following characteristic spectral data is

IR: 1736 cm⁻¹

 1 H NMR: δ 3.39 (s, 3H), 3.32 (t, 2H), 2.25 (t, 2H), 1.85-1.75 (m, 2H), 1.73-1.62 (m, 2H)

¹³C NMR: δ 174.0, 51.0, 32.9, 32.8, 31.0, 23.0

Options:

- 1. 1
- 2.2
- 3.3
- 4.4

Question Number: 67 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Nitrogen rule states that:

- a. An even molecular mass compound should contain even number of Nitrogen atoms
- b. An even molecular mass compound should contain odd number of Nitrogen atoms
- c. An odd molecular mass compound should contain even number of Nitrogen atoms
- d. An odd molecular mass compound should contain odd number of Nitrogen atoms

Options:

- 1. 1
- 2.2
- 3.3
- 4.4

Question Number: 68 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

IR spectra shows peak at 2125 cm⁻¹ of weak intensity. Assign the functional group;

- a. -CEC-
- b. -C≡N
- c. R₂C=CR₂
- d. R₂C=O

Options:

- 1.1
- 2.2
- 3.3
- 4.4

Question Number: 69 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

The reason for Graphene to be transparent is:

- a. It's ability to absorb 2-3% of the white light and transmit the rest
- b. It's ability to emit 2-3% of the white light and absorb the rest
- Interband optical transition
- Intraband optical transition

Options:

- 1. 1
- 2.2
- 3.3
- 4.4

Question Number: 70 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

The correct structure for (R)-2-aminopropanoic acid

a. COOH H——CH₃

b.

C.

d.

Options:

- 1. 1
- 2. 2
- 3. 3
- 4.4

Question Number : 71 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following reactions does not proceed through radical- anions?

- a. Birch reduction
- b. Acyloin condensation
- c. Wurtz reaction
- d. Meerwein-Pondorff-Verley reduction

Options:

- 1. 1
- 2.2
- 3. 3
- 4.4

Question Number : 72 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

The reduction of dialkyl acetylenes with sodium in liquid ammonia gives

- a. Only cis-alkenes
- b. Only trans-alkenes
- c. Equimolar mixture of cis- and trans-alkenes
- d. Alkanes

- 1. 1
- 2.2
- 3. 3

4	- 4
4	- 4

Question Number: 73 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0
What is the order of rotational axis in the benzene molecule?
a. 4
b. 5
c. 6
d. 2
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 74 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks: 1 Wrong Marks: 0
The two hands of a normal human being can be regarded as
a. Diastereomers
b. Geometrical isomers
c. Conformers
d. Enantiomers
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 75 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
The first Nobel Prize awarded to Marie Curie in 1903 was shared with
a. Antoine Henry Becquerel
b. Neil Bohr
c. Pierre Curie
d. Antoine Henry Becquerel
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 76 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Select the correct option which gives the correct relation between the following statements.

Assertion: 2-Methylbenzoic acid is more acidic than benzoic acid.

Reason: Groups present at the ortho position in benzoic acid, whether electron releasing or withdrawing, always lower the pK_a value.

- Both assertion and reason statements are true and reason is the correct explanation of assertion
- Both assertion and reason statements are true but the reason is not correct explanation of assertion
- c. Assertion statement is true but the reason is a false statement
- d. Assertion statement is false but the reason is a true statement

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number: 77 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Correct Marks: 1 Wrong Marks: 0

Number of non-equivalent protons in the following compound is

- a. 6
- b. 8
- c. 5
- d. 3

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number : 78 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

The amount of energy available in radio frequency radiation is sufficient for which of the following?

- a. Excite an atom
- b. Vibrate an atom
- c. Vibrate a molecule
- d. Affect the nuclear spin of an atom

Options:

- 1. 1
- 2.2
- 3. 3
- 4. 4

Question Number: 79 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

An organic compound shows following spectral data

IR (cm⁻¹): 1680. ¹HNMR (CDCl₃): 7.66 (m, 1H), 7.60 (m, 1H), 7.10 (m, 1H), 2.50 (s, 3H). ¹³C NMR (CDCl₃): 190, 144, 134, 132, 128, 28. EI-MS (m/z): 126 (M+, 100%), 128 (M+2, 4.8%).

The structure of the compound is



B. OMe
C. Me
D. S Me

Options:

- 1.1
- 2.2
- 3.3
- 4.4

Question Number: 80 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: **No Option Orientation: Vertical**

Correct Marks: 1 Wrong Marks: 0

The scientists who received Nobel Prize for the discovery of graphene are

- Simonio and Lyndiana Bernacotti
- b. John Desmond Bernal and Philip Wallace
- C. J. W. McClure and S. Mouras
- Andre Geim and Konstantin Novoselov d.

Options:

- 1. 1
- 2. 2
- 3.3
- 4.4

Question Number: 81 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: **No Option Orientation: Vertical**

Correct Marks: 1 Wrong Marks: 0

Novoselov and Geim isolated for the first-time graphene from graphite using which of the following technique?

- Chemical Vapor deposition
- Liquid Exfoliation
- Mechanical Exfoliation
- d. Hummer's method

- 1.1
- 2.2
- 3.3
- 4.4

2. 2 3. 3 4. 4 Question Number: 83 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following was the first reaction having 100% atom conservation? a. Synthesis of acetaldehyde by Wacker's process b. Synthesis of urea c. Diels-Alder reaction d. Phase transfer catalysis Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 84 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Nitration of benzene-De does not show any primary kinetic isotope effect. This is because a. The C-D bond is not broken in course of the reaction b. Formation of the sigma complex is rate determining c. Decomposition of the sigma complex is rate determining d. The reaction goes through a single step process Options: 1. 1 2. 2 3. 3 3. 3		
The structure of graphene is a. Tetrahedral with fice lattice structure b. Hexagonal with honeycomb lattice structure c. Hexagonal with honeycomb lattice structure d. Cubical structure Options: 1. 1 2. 2 3. 3 4. 4 Question Number: \$3. Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wroung Marks: 0 Which of the following was the first reaction having 100% atom conservation? a. Synthesis of acetaldehyde by Wacker's process b. Synthesis of acetaldehyde by Wacker's process c. Diels-Alder reaction d. Phase transfer catalysis Options: 1. 1 2. 2 3. 3 4. 4 Question Number: \$4 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wroung Marks: 0 Nitration of bennene-Da does not show any primary kinetic isotope effect. This is because a. The C-D bond is not broken in course of the reaction b. Formation of the sigma complex is rate determining c. Decomposition of the sigma complex is rate determining d. The reaction goes through a single step process Options: 1. 1 2. 2 3. 3 4. 4 Question Number: \$5. Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Correct Marks: 1 Wrong Marks: 0 A deuterated drug will be more effective when a. Any O-H and/or N-H group in the drug is replaced by 0-D and/or N-D bonds b. Any O-H group in the order is replaced by a C-D group	No O	ption Orientation : Vertical
a. Tetrahedral with foc lattice structure b. Hexagonal with foc lattice structure c. Hexagonal with foc lattice structure d. Cubical structure Options: 1. 1 2. 2 3. 3 4. 4 4 Question Number: 83 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: North Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following was the first reaction having 100% atom conservation? synthesis of acetaldehyde by Wacker's process b. Synthesis of urea c. Diels-Afder reaction d. Phase transfer catalysis Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 84 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Nitration of benzene-0s, does not show any primary kinetic isotope effect. This is because a. The C-D bool is not broken in course of the reaction b. Formation of benzene-0s, does not show any primary kinetic isotope effect. This is because a. The C-D bool is not broken in course of the reaction b. Formation of the sigma complex is rate determining c. Decomposition of the sigma complex is rate determining d. The reaction goes through a single step process Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 85 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Correct Marks: 1 Wrong Marks: 0 A deuterated drug will be more effective when a. Any O-H and/or N-H group in the drug is replaced by 0-D and/or N-D bonds b. Any O-H and/or N-H group in the drug is replaced by 0-D and/or N-D bonds b. Any O-H and/or N-H group in the drug is replaced by 0-D and/or N-D bonds b. Any O-H and/or N-H group in the drug is replaced by 0-D and/or N-D bonds b. Any O-H and/or N-H group in the drug is replaced by 0-D and/or N-D bonds b. Any O-H and/or N-H group in the drug is replaced by 0-D and/or N-D bonds b. Any O-H and/or N-H group in the drug is replaced by a C-D group		S 60 1000 40 40 40
b. Hexagonal with fcc lattice structure d. Cubical structure Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 83 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Correct Marks: 1 Wrong Marks: 0 Which of the following was the first reaction having 100% atom conservation? a. Synthesis of acetaldehyde by Wacker's process b. Synthesis of urea c. Diels-Alder reaction d. Phase transfer catalysis Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 84 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Nitration of benzene-Da does not show any primary kinetic isotope effect. This is because a. The C-D bond is not broken in course of the reaction b. Formation of the sigma complex is rate determining c. Decomposition of the sigma complex is rate determining d. The reaction goes through a single step process Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 85 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 85 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 85 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 85 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Options: 1. 1 2. 2 3. 3 4. 4 4 Question Number: 85 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Options: 1. 1 2. 2 3. 3 4. 4 5. 4 6. 4 6. 4 6. 4 6. 4 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6		
Dptions: 1. 1 2. 2 3. 3 4. 4 Question Number: 83 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Which of the following was the first reaction having 100% atom conservation? a. Synthesis of acetaldehyde by Wacker's process b. Synthesis of urea c. Diels-Alder reaction d. Phase transfer catalysis Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 84 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0 Responsible of the signal complex is rate determining c. Decomposition of the signal complex is rate determining d. The reaction goes through a single step process Options: 1. 1 2. 2 3. 3 4. 4 Question Number: 85 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option orientation: Vertical Correct Marks: 1: I Wrong Marks: 0 A deuterated drug will be more effective when a. Any O-H and/or N-H group in the drug is replaced by O-D and/or N-D bonds b. Any O-H and/or N-H group in the drug is replaced by O-D and/or N-D bonds b. Any O-H and/or N-H group in the drug is replaced by O-D and/or N-D bonds b. Any O-H and/or N-H group in the advagis replaced by D-D and/or N-D bonds b. Any O-H and/or N-H group in the advagis replaced by D-D and/or N-D bonds b. Any O-H and/or N-H group in the advagis replaced by D-D and/or N-D bonds b. Any O-H and/or N-D bonds		
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b. Any C-H group in the molecule is replaced by a C-D group	A de	uterated drug will be more effective when
	a.	[
The state of the s		

kinetic isotope effect, is replaced by a C-D bond

Options:

d. Any amide group in the molecule is replace by a CD2-CD2 group

1. 1
2. 2
3. 3
4. 4
Question Number: 86 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
The brown ring test can be carried out using which reagents?
a. aq. FeSO ₄ + conc. HCl
b. FeSO ₄ + conc. H ₂ SO ₄
c. aq. AgNO ₃ d. Dil. HCl
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 87 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
Which of the following organic compound will give reddish-orange ppt. on reaction with dil. HCl
followed by aq. NaNO2 and β-naphthol?
a. Benzophenone b. Benzaldehyde
c. Aniline
d. Diphenylamine
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 88 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical Correct Marks: 1 Wrong Marks: 0
How to transfer a solid chemical from a solid weighing bottle to a volumetric flask?
a. Transfer directly to the volumetric flask
b. Transfer using a beaker c. Transfer using a pipette
d. Transfer solid with the help of funnel and distilled water
Options:
1. 1
2. 2
3. 3
4. 4
Question Number: 89 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical
Correct Marks: 1 Wrong Marks: 0

Wh	ich of the following is not a Green Fuel?
a.	Biodiesel
b.	Bioethanol
C.	Solar energy
d.	Nuclear energy
Optio	ons:
1. 1	
2. 2	
3. 3	
4. 4	
7. 7	
No C	tion Number: 90 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Option Orientation: Vertical
	ect Marks: 1 Wrong Marks: 0
Wha	t was the reason for Marie Curie's death?
	a. Cancer b. Anemia
	c. Tuberculosis
	d. Heart attack
O 41	
Optio 1. 1	ons:
2. 2	
3. 3	
4. 4	
No C	tion Number: 91 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Option Orientation: Vertical ect Marks: 1 Wrong Marks: 0
No C Corre	Option Orientation: Vertical ect Marks: 1 Wrong Marks: 0
No C Corre	Option Orientation: Vertical ect Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper?
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No C Corre Whice	Option Orientation: Vertical ect Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today"
No C Corre Whice a. b	Option Orientation: Vertical ect Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today"
No C Corre Whice a. b. c.	Option Orientation: Vertical ect Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today" "Dynamite business man died"
No C Corre Whice a b c. d	Option Orientation: Vertical ect Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today" "Dynamite business man died"
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No C Corre Whice a. b. c. d Optic 1. 1 2. 2 3. 3 4. 4	option Orientation: Vertical cet Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "A man with wisdom died today" "Dynamite business man died" ons: tion Number: 92 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option:
No C Corre Whice a. b. c. d Optic 1. 1 2. 2 3. 3 4. 4 Quest No C Corre	option Orientation: Vertical cet Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today" "Dynamite business man died" ons: tion Number: 92 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: Option Orientation: Vertical
No C Corre Whice a. b. c. d Optic 1. 1 2. 2 3. 3 4. 4 Quest No C Corre Whice a	option Orientation: Vertical ext Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today" "Dynamite business man died" ons: tion Number: 92 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: petion Orientation: Vertical ext Marks: 1 Wrong Marks: 0 th of the following is not a characteristic of Lariat Ethers? Pseudo 3-D
No C Corre Whice a. b. c. d Optic 1. 1 2. 2 3. 3 4. 4 Quest No C Corre Whice a b	option Orientation: Vertical bet Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today" "Dynamite business man died" ons: tion Number: 92 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: potion Orientation: Vertical bet Marks: 1 Wrong Marks: 0 the of the following is not a characteristic of Lariat Ethers? Pseudo 3-D Crown ethers are better binder than Lariat ether
No C Corre Whice a. b. c. d Optic 1. 1 2. 2 3. 3 4. 4 Quest No C Corre Whice a b c.	potion Orientation: Vertical ext Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today" "Dynamite business man died" ons: tion Number: 92 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: potion Orientation: Vertical ext Marks: 1 Wrong Marks: 0 th of the following is not a characteristic of Lariat Ethers? Pseudo 3-D Crown ethers are better binder than Lariat ether Can accommodate non-spherical cations
No C Corre Whice a. b. c. d Optic 1. 1 2. 2 3. 3 4. 4 Quest No C Corre Whice a b c.	option Orientation: Vertical bet Marks: 1 Wrong Marks: 0 h of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today" "Dynamite business man died" ons: tion Number: 92 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: potion Orientation: Vertical bet Marks: 1 Wrong Marks: 0 th of the following is not a characteristic of Lariat Ethers? Pseudo 3-D Crown ethers are better binder than Lariat ether
No C Corre Whice a. b. c. d Optic 1. 1 2. 2 3. 3 4. 4 Quest No C Corre Whice a b c.	Aption Orientation: Vertical ext Marks: 1 Wrong Marks: 0 In of the following was used as obituary statement for Alfred Nobel in a leading newspaper? "Merchant of death has died today" "Merchant of Dynamite has died today" "A man with wisdom died today" "Dynamite business man died" In orientation: Vertical ext Marks: 1 Wrong Marks: 0 In of the following is not a characteristic of Lariat Ethers? Pseudo 3-D Crown ethers are better binder than Lariat ether Can accommodate non-spherical cations Lariat ether are formed by crown ether and one appended arm

 $Question\ Number: 93\ Question\ Type: MCQ\ Option\ Shuffling: No\ Display\ Question\ Number: Yes\ Single\ Line\ Question\ Option: No\ Option\ Orientation: Vertical$

Correct Marks: 1 Wrong Marks: 0

Which will be the major product for the following reaction?

а.

b.

c.

d.

Options:

- 1. 1
- 2.2
- 3.3
- 4. 4

Question Number : 94 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks: 1 Wrong Marks: 0

Which of the following has been found useful for the filtration of sea water?

- a. Graphite
- b. Graphene
- c. Diamond
- d. Fullerene

Options:

2. 2
3. 3
4. 4
Question Number : 95 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks: 1 Wrong Marks: 0
Which of the following is true about spreadsheet? a. Time consuming b. Difficult calculations c. Easy organization and computation of data d. Difficulty in multiple problem solving
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 96 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks: 1 Wrong Marks: 0
The use of spot test is not feasible for the experiments for
a. Qualitative Anion analysis
b. Qualitative Cation analysis c. Functional group analysis
c. Functional group analysis d. Preparation of acid from amide
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 97 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical
Correct Marks: 1 Wrong Marks: 0
Fingerprints found at the scene of crime are usually
a. Plastic print
b. Inked print
c. Patent print
d. Latent print
Options:
1. 1
2. 2
3. 3
4. 4
Question Number : 08 Question Type : MCQ Option Shuffling : No. Display Question Number : Ves. Single I in Question Option :

Question Number: 98 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option: No Option Orientation: Vertical

Carbo	oxylic acids are more acidic than alcohols and phenols because of
a.	Intermolecular hydrogen bonding
b.	. Formation of dimers
c.	Highly acidic hydrogen
d.	. Resonance stabilization of their conjugate base
Optio	nc •
1. 1	
2. 2	
3. 3	
3. <i>3</i> 4. 4	
4. 4	
Quest No O	ion Number : 99 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option ption Orientation : Vertical
Corre	ect Marks : 1 Wrong Marks : 0
An i	mportant electronic parameter which dictates the electrochemical, optical and charge transport
prop	perties of Electrically Conducting Polymers is
a.	Bond length
b.	Potential energy
c.	Refractivity
d.	Band gap
Optio	ns :
1. 1	
2. 2	
- 3. 3	
4. 4	
4. 4	
No O	ion Number: 100 Question Type: MCQ Option Shuffling: No Display Question Number: Yes Single Line Question Option Orientation: Vertical
	ect Marks: 1 Wrong Marks: 0
	ammonium ion in the salt can be confirmed by which one of the following reagent?
	a. aq. NaOH
	b. Ammonium thiocyanate
	c. Potassium ferrocyanide
	d. Nessler's reagent
Optio	ns:
1. 1	
2. 2	