



TEST

Practice Test (4B-Compounds of nitrogen and sulphur)



10 Questions



10 min

Topics

Nitrogenous Fertilizers, Manufacturing of Sulphuric Acid, Reactions-as Oxidizing and Dehydrating Agent

Start Test

09 : 53



1/10



10 min



Hint

Q : In contact process, drying tower of purifying unit is filled with

A

As_2O_3

B

$\text{Fe}(\text{OH})_3$

C

Coke

D

V_2O_5

1

2

3

4

5

6

7

09 : 51



2/10



10 min



Hint

Q : H_2SO_4 is used in manufacturing of



HCl



H_3PO_4



Sulphates



All of these

1

2

3

4

5

6

7

09 : 49



3/10



10 min



Hint

Q : In contact process, gases, are passed through _____ to cool them to 100°C

A

Graphite pipes

B

Lead pipes

C

Zinc Pipes

D

Silver pipes

1

2

3

4

5

6

7

09 : 47



4/10



10 min



Hint

Q : In contact process, dust particles from the gases are removed by

A

Coke

B

Liquid water

C

Steam

D

Concentration Sulphuric acid

1

2

3

4

5

6

7

09 : 44



5/10



10 min



Hint

Q : Which one of the following product is obtained when SO_3 is absorbed in concentrated sulphuric acid

A

Oleum

B

Hydrogen sulphide

C

Aqua regia

D

Sulphate ion

1

2

3

4

5

6

7

09 : 42



6/10



10 min



Hint

Q :

Sulphuric acid can not act as a

A

Oxidizing agent

B

Reducing agent

C

Dehydrating agent

D

Sulphonating agent

1

2

3

4

5

6

7

09 : 39



7/10



10 min



Hint

Q : Which one of the following organic fertilizer contains maximum %age of nitrogen

A

Ammonium nitrate

B

Ammonium sulphate

C

Urea

D

Ammonia

1

2

3

4

5

6

7

09 : 36



8/10



10 min



Hint

Q : Nutrients which are required in very small amount are called micro-nutrients, which of the following is not a micro-nutrient?

A

Mn

B

B

C

Mg

D

Fe

4

5

6

7

8

9

10

09 : 34



9/10



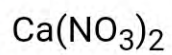
10 min



Hint

Q : Which of the following fertilizer makes the soil acidic

A



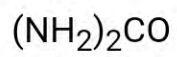
B



C



D



4

5

6

7

8

9

10

09 : 32



10/10



10 min



Hint

Q : %age of N in ammonia



35%



82%



46%



14%

4

5

6

7

8

9

10



TEST RESULT

Practice Test (4B-Compounds of nitrogen and sulphur)



10



10 min



08-Aug-2020



0 sec

[Result Detail](#)



	Correct	0
	Incorrect	0
	Unattempted	10



Practice Test (41



Correct



Unattempted



Incorrect



1/10

Q : In contact process, drying tower of purifying unit is filled with



As_2O_3



$\text{Fe}(\text{OH})_3$



Coke



V_2O_5

1

2

3

4

5

6

7



Practice Test (41



Correct



Unattempted



Incorrect



2/10

Q : H_2SO_4 is used in manufacturing of



HCl



H_3PO_4



Sulphates



All of these

1

2

3

4

5

6

7



Practice Test (41



Correct



Unattempted



Incorrect



3/10

Q : In contact process, gases, are passed through _____ to cool them to 100°C



Graphite pipes



Lead pipes



Zinc Pipes



Silver pipes

1

2

3

4

5

6

7



Practice Test (41



Correct



Unattempted



Incorrect



4/10

Q : In contact process, dust particles from the gases are removed by



Coke



Liquid water



Steam



Concentration Sulphuric acid

1

2

3

4

5

6

7



Correct



Unattempted



Incorrect



5/10

Q : Which one of the following product is obtained when SO_3 is absorbed in concentrated sulphuric acid



Oleum



Hydrogen sulphide



Aqua regia



Sulphate ion



Practice Test (41



Correct



Unattempted



Incorrect



6/10

Q:

Sulphuric acid can not act as a

A

Oxidizing agent

B

Reducing agent

C

Dehydrating agent

D

Sulphonating agent

1

2

3

4

5

6

7



Practice Test (41



Correct



Unattempted



Incorrect



7/10

Q : Which one of the following organic fertilizer contains maximum %age of nitrogen



Ammonium nitrate



Ammonium sulphate



Urea



Ammonia

1

2

3

4

5

6

7



Correct



Unattempted



Incorrect



8/10

Q : Nutrients which are required in very small amount are called micro-nutrients, which of the following is not a micro-nutrient?



Mn



B



Mg



Fe



Correct



Unattempted



Incorrect



9/10

Q : Which of the following fertilizer makes the soil acidic



$\text{Ca}(\text{NO}_3)_2$



NaNO_3



KNO_3



$(\text{NH}_2)_2\text{CO}$



Practice Test (41



Correct



Unattempted



Incorrect



10/10

Q : %age of N in ammonia

A

35%

B

82%

C

46%

D

14%



TEST

Test Level-1 (4B-Compounds of nitrogen and sulphur)



20 Questions



20 min

Topics

Nitrogenous Fertilizers, Manufacturing of Sulphuric Acid, Physical Properties, Reactions-as Oxidizing and Dehydrating Agent, Air Pollution

Start Test

19 : 58



1/20



20 min



Hint

Q : In contact process, SO_3 is dissolved in _____
 H_2SO_4

A

50%

B

98%

C

75%

D

60%

1

2

3

4

5

6

7

19 : 56



2/20



20 min



Hint

Q : $(\text{COOH})_2 \xrightarrow{\text{Conc. H}_2\text{SO}_4} ?$
The products formed

A

$\text{CO}_2(\text{g})$

B

$\text{CO}(\text{g})$

C

$\text{H}_2\text{O}(\text{l})$

D

All of these

1

2

3

4

5

6

7

19 : 53



3/20



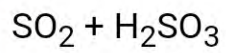
20 min



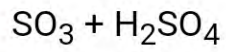
Hint

Q : Oleum ($\text{H}_2\text{S}_2\text{O}$) is mixture of

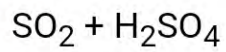
A



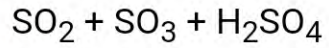
B



C



D



1

2

3

4

5

6

7

19 : 51



4/20



20 min



Hint

Q : The dissolution of H_2SO_4 in water is exothermic because of

A

Hydrolysis of acid

B

decomposition of water

C

decomposition of acid

D

none

1

2

3

4

5

6

7

19 : 49



5/20



20 min



Hint

Q :

SO_3 is not absorbed in H_2O directly to form H_2SO_4 because



The process is slow



SO_3 is insoluble in H_2O



Reaction is highly exothermic



All of these

1

2

3

4

5

6

7

19 : 46



6/20



20 min



Hint

Q : Which of the following gas cannot be dried by passing through H_2SO_4

A

SO_3

B

H_2S

C

NH_3

D

All of these

1

2

3

4

5

6

7

19 : 44



7/20



20 min



Hint

Q : Macronutrients requirement per acre range from:



4-40 g



5-200 Kg



6-200 g



4-40 Kg

1

2

3

4

5

6

7

19 : 41



8/20



20 min



Hint

Q : Urea is obtained by the dehydration of



Acetamide



Ammonium carbamate



Ammonium carbonate



Ammonium bicarbonate

4

5

6

7

8

9

10

19 : 39



9/20



20 min



Hint

Q : Which of the following nutrients helps in ripening of seeds, fruits and cereals

A

Nitrogen

B

Phosphorous

C

Potassium

D

Boron

4

5

6

7

8

9

10

19 : 37



10/20



20 min



Hint

Q : Which of the following is not the property of good fertilizer

A

It is soluble in water

B

It alter pH of the soil

C

It is cheap to be prepared

D

It is not be injurious to plants

4

5

6

7

8

9

10

19 : 33



11/20



20 min



Hint

Q : Why V_2O_5 used in the conversion of SO_2 to SO_3



A It act as reducing agent



B It prevents the decomposition SO_3



C It removes the impurities



D It speeds up the reaction

10

11

12

13

14

15

16

17

19 : 31



12/20



20 min



Hint

Q : Sulphuric acid can not act as a

A

Oxidizing agent

B

Reducing agent

C

Dehydrating agent

D

Sulphonating agent

10

11

12

13

14

15

16

17

19 : 29



13/20



20 min



Hint

Q : Sulphuric acid is also known as



Oil of vitriol



Blue vitriol



Green vitriol



White vitriol

10

11

12

13

14

15

16

17

19 : 26



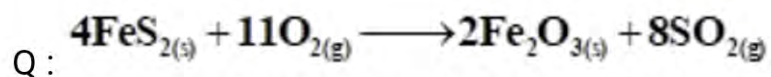
14/20



20 min



Hint



The above reaction takes place during manufacturing of sulphuric acid in

A

Contact tower

B

Sulphur burner

C

Absorption unit

D

Purifying unit

10

11

12

13

14

15

16

17

19 : 24



15/20



20 min



Hint

Q : During the contact process, sulfur trioxide is converted to sulfuric acid in a two-step process. Why is the sulfur trioxide not simply reacted directly with water to form sulfuric acid



A The rate of reaction is too slow to be economically feasible



B The reaction is highly exothermic and produces a mist of acid



C In a direct reaction the product would be a mixture of sulfuric acid and hydrogen sulfide



D The reaction would require high temperatures and high pressures to obtain a satisfactory yield

10

11

12

13

14

15

16

17

19 : 22



16/20



20 min



Hint

Q : Which set of conditions would promote the fastest rate in the contact process

A

No catalyst, high pressure, low temperature

B

Catalyst, low pressure, high temperature

C

Catalyst, high pressure, high temperature

D

Catalyst, low pressure, low temperature

10

11

12

13

14

15

16

17

19 : 18



17/20



20 min



Hint

Q : During the production of sulfuric acid by the contact process, the compound used for arsenic purification is



Fe



FeO



Fe(OH)₃



FeSO₄

14

15

16

17

18

19

20

19 : 16



18/20



20 min



Hint

Q : The acid rain destroys the vegetation because it contains

A

Nitrates

B

Ozone

C

Carbon monoxide

D

Sulfuric acid

14

15

16

17

18

19

20

19 : 14



19/20



20 min



Hint

Q : Major Source of acid deposition in atmosphere is



CO



CO₂



SO₂



N₂

14

15

16

17

18

19

20

19 : 11



20/20



20 min



Hint

Q : On global scale most of SO_2 is produced by



Volcanoes



Crude oil



Petroleum industry



Combustion of coal

14

15

16

17

18

19

20



TEST RESULT

Test Level-1 (4B-Compounds of nitrogen and sulphur)



20



20 min



08-Aug-2020



0 sec

[Result Detail](#)



	Correct	0
	Incorrect	0
	Unattempted	20



Correct



Unattempted



Incorrect



1/20

Q : In contact process, SO_3 is dissolved in _____
 H_2SO_4



50%



98%



75%



60%



Correct



Unattempted



Incorrect



1/20

Q : In contact process, SO_3 is dissolved in _____
 H_2SO_4



50%



98%



75%



60%



Correct



Unattempted



Incorrect



2/20

Q : $(\text{COOH})_2 \xrightarrow{\text{Conc. H}_2\text{SO}_4} ?$
The products formed

 $\text{CO}_2(\text{g})$  $\text{CO}(\text{g})$  $\text{H}_2\text{O}(\text{l})$ 

All of these



Correct



Unattempted



Incorrect



3/20

Q : Oleum ($\text{H}_2\text{S}_2\text{O}$) is mixture of



$\text{SO}_2 + \text{H}_2\text{SO}_3$



$\text{SO}_3 + \text{H}_2\text{SO}_4$



$\text{SO}_2 + \text{H}_2\text{SO}_4$



$\text{SO}_2 + \text{SO}_3 + \text{H}_2\text{SO}_4$



Correct



Unattempted



Incorrect



4/20

Q : The dissolution of H_2SO_4 in water is exothermic because of



Hydrolysis of acid



decomposition of water



decomposition of acid



none



Correct



Unattempted



Incorrect



5/20

Q:

SO_3 is not absorbed in H_2O directly to form H_2SO_4 because

A

The process is slow

B

SO_3 is insoluble in H_2O

C

Reaction is highly exothermic

D

All of these



Correct



Unattempted



Incorrect



6/20

Q : Which of the following gas cannot be dried by passing through H_2SO_4



SO_3



H_2S



NH_3



All of these



Correct



Unattempted



Incorrect



7/20

Q : Macronutrients requirement per acre range from:



4-40 g



5-200 Kg



6-200 g



4-40 Kg



Test Level-1 (4B-



Correct



Unattempted



Incorrect



8/20

Q : Urea is obtained by the dehydration of



Acetamide



Ammonium carbamate



Ammonium carbonate



Ammonium bicarbonate



Correct



Unattempted



Incorrect



9/20

Q : Which of the following nutrients helps in ripening of seeds, fruits and cereals



Nitrogen



Phosphorous



Potassium



Boron



Correct



Unattempted



Incorrect



10/20

Q : Which of the following is not the property of good fertilizer



It is soluble in water



It alter pH of the soil



It is cheap to be prepared



It is not be injurious to plants



Correct



Unattempted



Incorrect



11/20

Q : Why V_2O_5 used in the conversion of SO_2 to SO_3



It act as reducing agent



It prevents the decomposition SO_3



It removes the impurities



It speeds up the reaction



Correct



Unattempted



Incorrect



12/20

Q : Sulphuric acid can not act as a

A

Oxidizing agent

B

Reducing agent

C

Dehydrating agent

D

Sulphonating agent



Correct



Unattempted



Incorrect



13/20

Q : Sulphuric acid is also known as



Oil of vitriol



Blue vitriol



Green vitriol



White vitriol



Correct



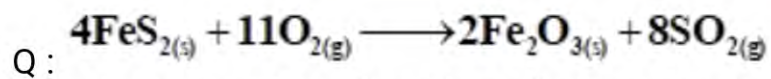
Unattempted



Incorrect



14/20



The above reaction takes place during manufacturing of sulphuric acid in



Contact tower



Sulphur burner



Absorption unit



Purifying unit



Correct



Unattempted



Incorrect



15/20

Q : During the contact process, sulfur trioxide is converted to sulfuric acid in a two-step process. Why is the sulfur trioxide not simply reacted directly with water to form sulfuric acid

A

The rate of reaction is too slow to be economically feasible

B

The reaction is highly exothermic and produces a mist of acid

C

In a direct reaction the product would be a mixture of sulfuric acid and hydrogen sulfide

D

The reaction would require high temperatures and high pressures to obtain a satisfactory yield



Correct



Unattempted



Incorrect



16/20

Q : Which set of conditions would promote the fastest rate in the contact process



A No catalyst, high pressure, low temperature



B Catalyst, low pressure, high temperature



C Catalyst, high pressure, high temperature



D Catalyst, low pressure, low temperature



Correct



Unattempted



Incorrect



17/20

Q : During the production of sulfuric acid by the contact process, the compound used for arsenic purification is



Fe



FeO



Fe(OH)₃



FeSO₄



Correct



Unattempted



Incorrect



18/20

Q : The acid rain destroys the vegetation because it contains



Nitrates



Ozone



Carbon monoxide



Sulfuric acid



Correct



Unattempted



Incorrect



19/20

Q : Major Source of acid deposition in atmosphere is



CO



CO₂



SO₂



N₂



Correct



Unattempted



Incorrect



20/20

Q : On global scale most of SO_2 is produced by



Volcanoes



Crude oil



Petroleum industry



Combustion of coal



TEST

Test Level-2 (Topic 4B)



30 Questions



30 min

Topics

Nitrogenous Fertilizers, Manufacturing of Sulphuric Acid, Reactions-as Oxidizing and Dehydrating Agent, Acid Rain, Smog and Ozone

[Start Test](#)

29 : 58



1/30



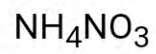
30 min



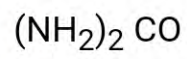
Hint

Q : Which of the following fertilizer cannot change the pH of soil

A



B



C



D



1

2

3

4

5

6

7

29 : 56



2/30



30 min



Hint

Q : Gaseous Carbon dioxide is mixed with ammonia in the volume ratio of _____ in a reactor to produce ammonium carbamate

A

2 : 1

B

1 : 2

C

1 : 1

D

2 : 2

1

2

3

4

5

6

7

29 : 54



3/30



30 min



Hint

Q : NH_3 prepared by Haber process, separated from unreacted N_2 and H_2 by

A

Boiling

B

Filtration

C

Vaccum distillation

D

Cooling

1

2

3

4

5

6

7

29 : 52



4/30



30 min



Hint

Q : Nitrogen is required during early stage of plant growth for development of

A

Roots

B

Stem

C

Fruits

D

Seeds

1

2

3

4

5

6

7

29 : 50



5/30



30 min



Hint

Q : When paper is charred by conc. sulphuric acid the residue left behind of that paper is mainly

A

Cellulose

B

Water

C

Carbon dioxide

D

Carbon

1

2

3

4

5

6

7

29 : 47



6/30

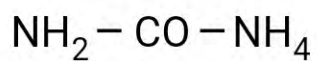
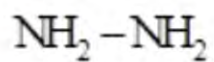


30 min



Hint

Q : Dehydration of Ammonium carbamate gives



1

2

3

4

5

6

7

29 : 45



7/30



30 min



Hint

Q : Which one of the following fertilizer contains maximum percentage of nitrogen

A

Potassium nitrate

B

Ammonium nitrate

C

Diammonium hydrogen phosphate

D

Urea

1

2

3

4

5

6

7

29 : 43



8/30



30 min



Hint

Q : Ammonium carbamate is an _____ compound and soluble in _____

A

Organic, water

B

Organic, alcohol

C

Inorganic, alcohol

D

Inorganic, water

4

5

6

7

8

9

10

29 : 40



9/30



30 min



Hint

Q : When iron pyrites burn in air, the gas produced mainly is

A

H_2S

B

SO_3

C

SO_2

D

CO_2

4

5

6

7

8

9

10

29 : 37



10/30



30 min



Hint

Q : Ammonium nitrate may be produced by reacting



NH_3 and H_2SO_4



HNO_3 and H_2SO_4



NH_3 and HNO_3



HNO_3 and KNO_3

4

5

6

7

8

9

10

29 : 34



11/30

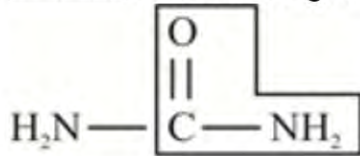


30 min



Hint

Q : In the following compound the circled area shows _____ functional group



A

Amine

B

Imine

C

Amide

D

Ammonia

8

9

10

11

12

13

14

29 : 31



12/30



30 min



Hint

Q : Formation of ammonium carbamate from NH_3 and CO_2 is _____

A

Oxidation reaction

B

Reduction reaction

C

Redox reaction

D

Acid-base reaction

8

9

10

11

12

13

14

29 : 29



13/30



30 min



Hint

Q : The inorganic nitrogenous fertilizer is



Urea



Ammonium nitrate



Manure



All of these

8

9

10

11

12

13

14

29 : 27



14/30



30 min



Hint

Q : Which of the following is NOT an effect of acid rain



Promote rusting



Stone-cancer in Taj Mahal



Increases fertility of soil



Decreases pH of soil

8

9

10

11

12

13

14

29 : 23



15/30



30 min



Hint

Q : Which of the following gas causes acid rain



N₂



CO



SO₂



O₂

13

14

15

16

17

18

19

29 : 21



16/30



30 min



Hint

Q : The pH of unpolluted rain water is



Less than 5



Equal to 5.6



More than 6



Less than 4

13

14

15

16

17

18

19

29 : 18



16/30



30 min



Hint

Q : The pH of unpolluted rain water is



Less than 5



Equal to 5.6



More than 6



Less than 4

13

14

15

16

17

18

19

29 : 16



17/30



30 min



Hint

Q : Temporary acid rain is due to release of _____ by volcanic eruption

A

H_2SO_4

B

HCl

C

HNO_2

D

H_2CO_3

13

14

15

16

17

18

19

29 : 13



18/30



30 min



Hint

Q : Chemical formula of pyrosulphuric acid is



$\text{H}_2\text{S}_2\text{O}_7$



SO_3



H_2SO_4



SO_2

13

14

15

16

17

18

19

29 : 11



19/30



30 min



Hint

Q : In contact process SO_2 gas is cooled to 100°C by passing through ____ pipes.

A

Pb

B

Fe

C

Cu

D

Al

13

14

15

16

17

18

19

29 : 07



20/30



30 min



Hint

Q : DAP is prepared by anhydrous ammonia and pure phosphoric acid at temperature of

A

25 - 35 °C

B

35 - 45 °C

C

50 - 60 °C

D

60 - 70 °C

5

16

17

18

19

20

21

22

29 : 05



21/30



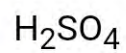
30 min



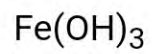
Hint

Q : In contact process arsenic oxide is removed by passing SO_2 gas through

A



B



C



D



5

16

17

18

19

20

21

22

29 : 02



22/30



30 min



Hint

Q : The drying tower in contact process is packed with



Coke



Lime stone



Ferric hydroxide



Both "A" and "B"

16

17

18

19

20

21

22

28 : 59



23/30



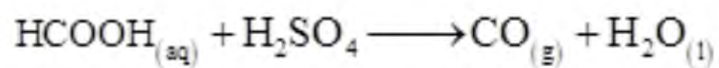
30 min



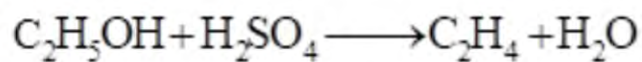
Hint

Q : In which of the following Sulphuric Acid behave as oxidizing agent

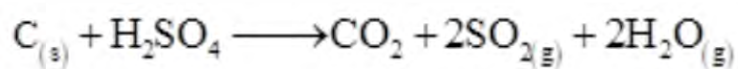
A



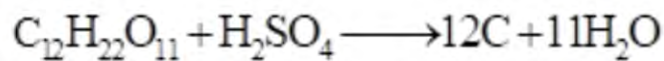
B



C



D



3

19

20

21

22

23

24

25

28 : 55



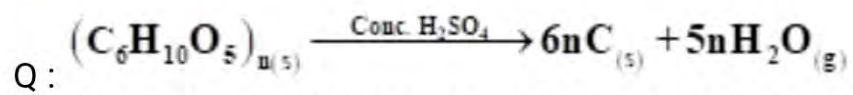
24/30



30 min



Hint



In the above mention reaction sulphuric acid is acting as



A Oxidizing agent



B Reducing agent



C Dehydrating agent



D Hydrating agent

28 : 52



25/30



30 min



Hint

Q : Sulphur (VI) oxide is anhydride of



A Sulphurous acid



B Pyrosulphuric acid



C Sulphuric acid



D Phosphorus acid

19

20

21

22

23

24

25

28 : 49



26/30



30 min



Hint

Q : The catalyst usually used for large scale conversion of SO_2 into SO_3 is

A

Pd

B

Al_2O_3

C

Fe

D

V_2O_5

22

23

24

25

26

27

28

28 : 47



27/30



30 min



Hint

Q : In contact process of H_2SO_4 manufacture SO_3 is not directly mix with water because

A

Reaction is slow

B

Reaction is highly exothermic

C

Reaction is highly endothermic

D

No reaction takes place

22

23

24

25

26

27

28

28 : 44



28/30



30 min



Hint

Q : _____ is removed from SO_2 in purifying unit to avoid poisoning of catalyst

A

Carbon monoxide

B

Arsenic oxide

C

Iron oxide

D

All of these

22

23

24

25

26

27

28

28 : 41



29/30



30 min



Hint

Q : In contact process, temperature of contact chamber is kept at

A

900°C

B

400°C

C

100°C

D

600°C

24

25

26

27

28

29

30

28 : 38



30/30



30 min



Hint

Q :

Deposits of ammonium sulphate are believed to arise from the following reaction $\text{SO}_3 + \text{H}_2\text{O} + 2\text{NH}_3 \rightarrow (\text{NH}_4)_2\text{SO}_4$. What does not occur in this reaction

A

Acid / base neutralization

B

Dative bond formation

C

Ionic bond formation

D

Oxidation / reduction

24

25

26

27

28

29

30



Correct



Unattempted



Incorrect



1/30

Q : Which of the following fertilizer cannot change the pH of soil



NH_4NO_3



$(\text{NH}_2)_2\text{CO}$



NH_3



KNO_3



Correct



Unattempted



Incorrect



2/30

Q : Gaseous Carbon dioxide is mixed with ammonia in the volume ratio of _____ in a reactor to produce ammonium carbamate



2 : 1



1 : 2



1 : 1



2 : 2



Correct



Unattempted



Incorrect



3/30

Q : NH_3 prepared by Haber process, separated from unreacted N_2 and H_2 by



Boiling



Filtration



Vaccum distillation



Cooling



Correct



Unattempted



Incorrect



4/30

Q : Nitrogen is required during early stage of plant growth for development of



Roots



Stem



Fruits



Seeds



Correct



Unattempted



Incorrect



5/30

Q : When paper is charred by conc. sulphuric acid the residue left behind of that paper is mainly



A Cellulose



B Water



C Carbon dioxide



D Carbon



Correct



Unattempted



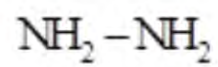
Incorrect



6/30

Q : Dehydration of Ammonium carbamate gives

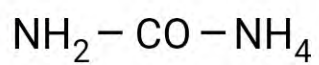
A



B



C



D





Correct



Unattempted



Incorrect



7/30

Q : Which one of the following fertilizer contains maximum percentage of nitrogen



Potassium nitrate



Ammonium nitrate



Diammonium hydrogen phosphate



Urea



Correct



Unattempted



Incorrect



8/30

Q : Ammonium carbamate is an _____ compound and soluble in _____



Organic, water



Organic, alcohol



Inorganic, alcohol



Inorganic, water



Correct



Unattempted



Incorrect



9/30

Q : When iron pyrites burn in air, the gas produced mainly is



H₂S



SO₃



SO₂



CO₂



Correct



Unattempted



Incorrect



10/30

Q : Ammonium nitrate may be produced by reacting

A

NH_3 and H_2SO_4

B

HNO_3 and H_2SO_4

C

NH_3 and HNO_3

D

HNO_3 and KNO_3



Correct



Unattempted



Incorrect



11/30

Q : In the following compound the circled area shows _____ functional group



Amine



Imine



Amide



Ammonia



Correct



Unattempted



Incorrect



12/30

Q : Formation of ammonium carbamate from NH_3 and CO_2 is _____



Oxidation reaction



Reduction reaction



Redox reaction



Acid-base reaction



Correct



Unattempted



Incorrect



13/30

Q : The inorganic nitrogeous fertilizer is

A

Urea

B

Ammonium nitrate

C

Manure

D

All of these



Correct



Unattempted



Incorrect



14/30

Q : Which of the following is NOT an effect of acid rain



Promote rusting



Stone-cancer in Taj Mahal



Increases fertility of soil



Decreases pH of soil



Correct



Unattempted



Incorrect



15/30

Q : Which of the following gas causes acid rain

A

N_2

B

CO

C

SO_2

D

O_2



Correct



Unattempted



Incorrect



16/30

Q : The pH of unpolluted rain water is



Less than 5



Equal to 5.6



More than 6



Less than 4



Correct



Unattempted



Incorrect



17/30

Q : Temporary acid rain is due to release of _____ by volcanic eruption



H_2SO_4



HCl



HNO_2



H_2CO_3



Correct



Unattempted



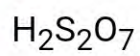
Incorrect



18/30

Q : Chemical formula of pyrosulphuric acid is

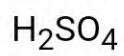
A



B



C



D





Correct



Unattempted



Incorrect



18/30

Q : Chemical formula of pyrosulphuric acid is



$\text{H}_2\text{S}_2\text{O}_7$



SO_3



H_2SO_4



SO_2



Correct



Unattempted



Incorrect



19/30

Q : In contact process SO_2 gas is cooled to 100°C by passing through ____ pipes.



Pb



Fe



Cu



Al



Correct



Unattempted



Incorrect



20/30

Q : DAP is prepared by anhydrous ammonia and pure phosphoric acid at temperature of



25 - 35 °C



35 - 45 °C



50 - 60 °C



60 - 70 °C



Correct



Unattempted



Incorrect



22/30

Q : The drying tower in contact process is packed with



Coke



Lime stone



Ferric hydroxide



Both "A" and "B"



Correct



Unattempted



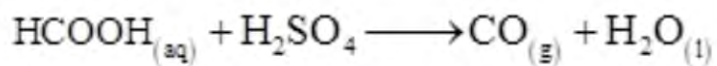
Incorrect



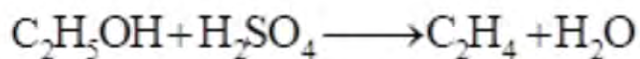
23/30

Q : In which of the following Sulphuric Acid behave as oxidizing agent

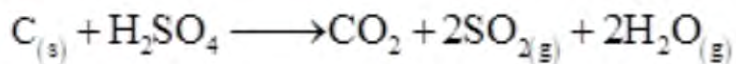
A



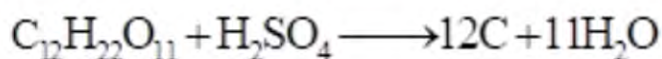
B



C



D





Correct



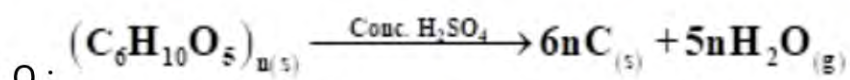
Unattempted



Incorrect



24/30



In the above mention reaction sulphuric acid is acting as

A

Oxidizing agent

B

Reducing agent

C

Dehydrating agent

D

Hydrating agent



Correct



Unattempted



Incorrect



25/30

Q : Sulphur (VI) oxide is anhydride of

A

Sulphurous acid

B

Pyrosulphuric acid

C

Sulphuric acid

D

Phosphorus acid



Correct



Unattempted



Incorrect



26/30

Q : The catalyst usually used for large scale conversion of SO_2 into SO_3 is



Pd



Al_2O_3



Fe



V_2O_5



Correct



Unattempted



Incorrect



27/30

Q : In contact process of H_2SO_4 manufacture SO_3 is not directly mix with water because



Reaction is slow



Reaction is highly exothermic



Reaction is highly endothermic



No reaction takes place



Correct



Unattempted



Incorrect



29/30

Q : In contact process, temperature of contact chamber is kept at



900°C



400°C



100°C



600°C



Correct



Unattempted



Incorrect



30/30

Q :

Deposits of ammonium sulphate are believed to arise from the following reaction $\text{SO}_3 + \text{H}_2\text{O} + 2\text{NH}_3 \rightarrow (\text{NH}_4)_2\text{SO}_4$. What does not occur in this reaction

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Oxidation / reduction