



TEST

Self Assessment Test (Unit-9)



50 Questions



50 min

Topics

SAT Unit (3C. Alkyl Halides, 4C. Alcohols and Phenols & 5C. Aldehydes and Ketones)

[Start Test](#)

49 : 58



1/50



50 min



Hint

Q :

$\text{CH}_3 - \text{CH}(\text{Cl})\text{CH}_3$ is called as

A

Iso-propyl chloride

B

2°-Alkyl halide

C

2-Chloropropane

D

All are correct

1

2

3

4

5

6

7

49 : 57



2/50



50 min



Hint

Q :

Halogens present in haloethanes are

A

F, I, Br

B

F, At

C

F, Cl, Br

D

Cl, I

1

2

3

4

5

6

7

49 : 56



3/50



50 min



Hint

Q : Which of the following statement is incorrect



A Halothane is the only inhalational anesthetic having bromine atom



B CFC's destroy ozone layer in troposphere



C Carbon tetrachloride is used as fire extinguisher



D Both A and C are incorrect

1

2

3

4

5

6

7

49 : 55



4/50



50 min



Hint

Q : The alkyl halide molecule on which the nucleophile attacks is called:



Electrophile



Substrate



Leaving group



Electrophilic centre

1

2

3

4

5

6

7

49 : 54



5/50



50 min



Hint

Q : Primary alkyl halides give

A

E2 and S_N2 reactions

B

E1 and S_N1 reactions

C

Either E1 or E2 reactions

D

S_N2 and E1 reactions

1

2

3

4

5

6

7

49 : 53



6/50

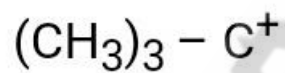
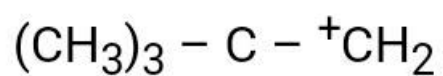


50 min



Hint

Q : Most stable carbonium ion is



1

2

3

4

5

6

7

49 : 52



7/50



50 min



Hint

Q : If an electrophile is the attacking reagent which one is most reactive?

A

R - I

B

R - Cl

C

R - Br

D

R - F

1

2

3

4

5

6

7

49 : 51



8/50



50 min



Hint

Q : SN1 reactions are favoured in which solvent?

A

Non polar

B

Polar

C

Slightly polar

D

All solvents

5

6

7

8

9

10

11

49 : 50



9/50

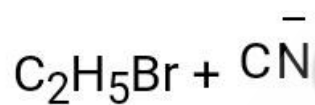
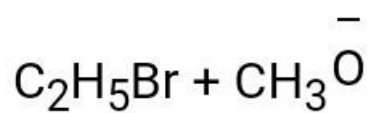


50 min



Hint

Q : Which pair of reactant give the primary alkyl amine as a product



5

6

7

8

9

10

11

49 : 49



9/50

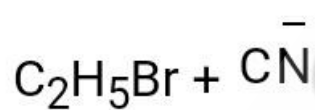
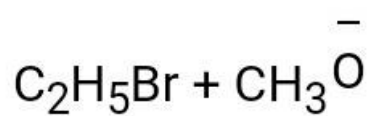


50 min



Hint

Q : Which pair of reactant give the primary alkyl amine as a product



5

6

7

8

9

10

11

49 : 48



10/50



50 min



Hint

Q : Which one among the following is good leaving group



OH^-



F^-



Cl^-



I^-

5

6

7

8

9

10

11

49 : 47



11/50



50 min



Hint

Q : In SN reactions, the correct order of reactivity of alkyl halide is

A $1^\circ > 2^\circ > 3^\circ$

B $3^\circ > 2^\circ > 1^\circ$

C $2^\circ > 1^\circ > 3^\circ$

D $1^\circ > 3^\circ > 2^\circ$

5

6

7

8

9

10

11

49 : 45



12/50



50 min



Hint

Q : C - X bond is strongest in



CH₃ - F



CH₃ - Cl



CH₃ - Br



CH₃ - I

USANIA SOHAIL



49 : 44



13/50



50 min



Hint

Q : Among halide (X^-) ions, the poor leaving group is



F^-



Cl^-



Br^-



I^-

USAMA SOHAIL



10

11

12

13

14

15

49 : 43



14/50



50 min



Hint

Q : Which of the following mechanism is most likely to be affected by nature of leaving group

A $SN_2 + SN_1$

B $E_2 + E_1$

C $SN_1 + E_1$

D $SN_2 + E_2$

10

11

12

13

14

15

49 : 42



15/50



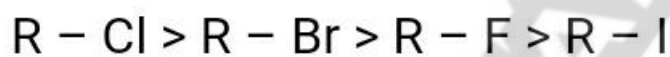
50 min



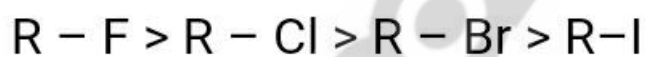
Hint

Q : The reactivity order of alkyl halides for Dehydrohalogenation reaction is

A



B



C



D



10

11

12

13

14

15

49 : 40



16/50



50 min



Hint

Q : 2-Bromopropane on reaction with alcoholic KOH gives



2-Propanol



Propane



1-Propene



1-Propanol

12

13

14

15

16

17

18

49 : 39



17/50



50 min



Hint

Q : Rate = $k [R - X][\text{BASE}]$

This rate law is consistent with which of following mechanism

A SN1

B E1

C E2

D none of these

12

13

14

15

16

17

18

49 : 38



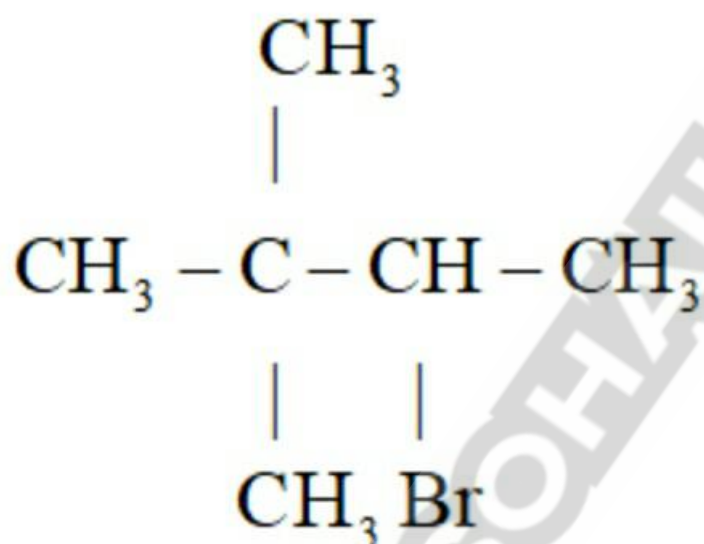
18/50



50 min

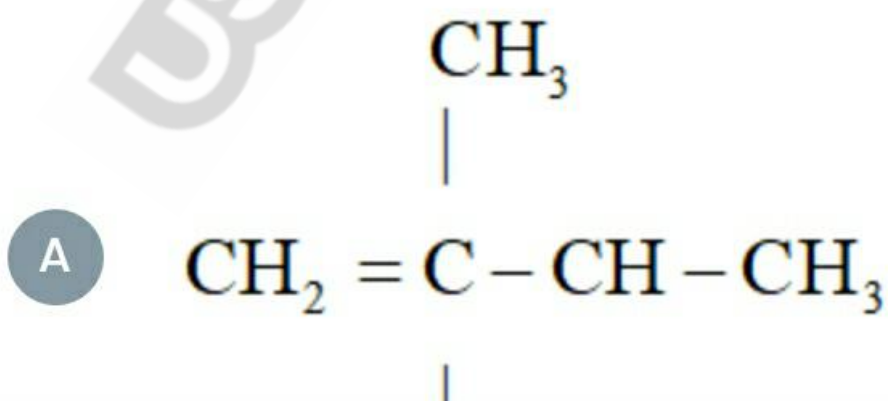


Hint



Q:

undergoes E mechanism to pr



2

13

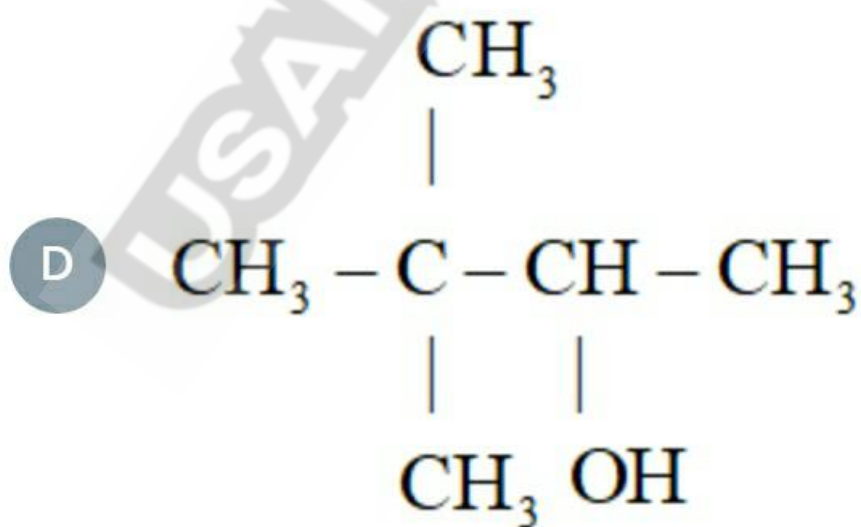
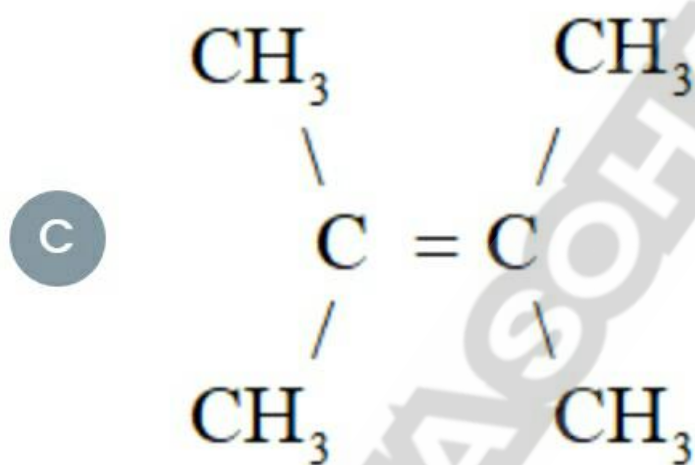
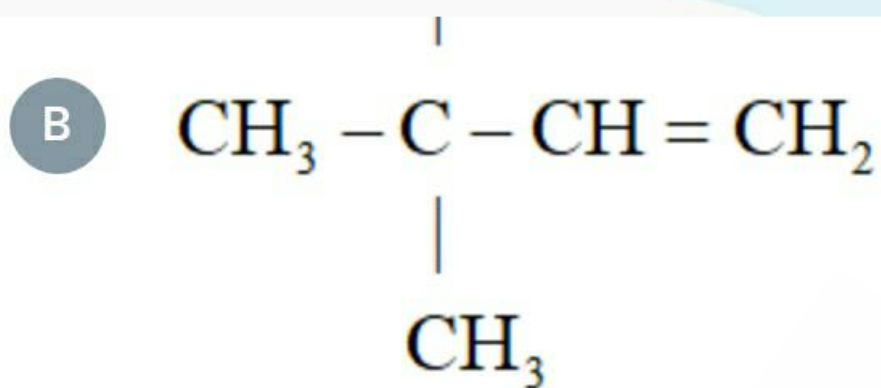
14

15

16

17

18



49 : 34



19/50



50 min



Hint

Q : Which one is not a characteristics of alcohols



They have higher boiling point than corresponding alkanes



Their acidic character decreases with increasing carbon atoms



They are lighter than water by mass



Their solubility in water decreases with increase in molecular weight

15

16

17

18

19

20

21

49 : 33



20/50



50 min



Hint

Q : Neo-pentyl alcohol is a type of alcohol

A Primary alcohol

B Tertiary alcohol

C Secondary alcohol

D Aromatic alcohol

15

16

17

18

19

20

21

49 : 32



21/50



50 min



Hint

Q : The hydration of ethene in the presence of conc. H_2SO_4 or conc. H_3PO_4 produces

A

Ethanol

B

Ethanal

C

Ethane

D

Ethyne

5

16

17

18

19

20

21

49 : 30



23/50



50 min



Hint

Q : Ethyl hydrogen sulphate on boiling with water decompose to give corresponding alcohol . The overall reaction involves the addition of water to an alkene and it is, therefore known as

A Hydration

B Oxidation

C Reduction

D Both A and B

20

21

22

23

24

25

49 : 29



24/50

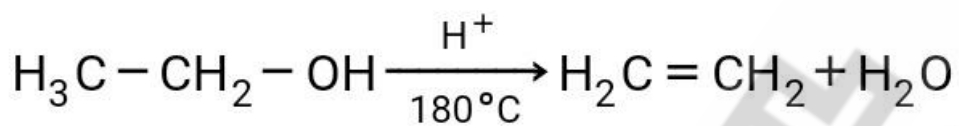


50 min



Hint

Q : For the reaction



The type of bonds that break are

A C - H and C - H

B C - H and H - O

C C - O and C - O

D C - H and C - O

20

21

22

23

24

25

49 : 28



25/50



50 min



Hint

Q : When ethanol reacts with PCl_5 then products formed are:

A

$\text{C}_2\text{H}_5\text{Cl}$ and H_3PO_3

B

$\text{C}_2\text{H}_5\text{Cl}$ and HCl

C

$\text{C}_2\text{H}_5\text{Cl}$, POCl_3 and HCl

D

$\text{C}_2\text{H}_5\text{Cl}$ only

20

21

22

23

24

25

49 : 25



26/50



50 min



Hint

Q : When an unknown primary alcohol gives yellow precipitates of iodoform, it is most likely to be:

A Methanol

B Ethanol

C 1-Propanol

D 1-Butanol

24

25

26

27

28

29

30

49 : 24



27/50



50 min



Hint

Q : Which of the following is used as a catalyst for esterification:

A

Dil. H_2SO_4

B

Conc. H_2SO_4

C

Dilute alkali

D

Conc. alkali

24

25

26

27

28

29

30

49 : 23



28/50



50 min



Hint

Q : Distinction between methanol and ethanol can be performed by

A

Lucas test

B

Fehling's test

C

Iodoform test

D

2,4 -DNPH

24

25

26

27

28

29

30

49 : 23



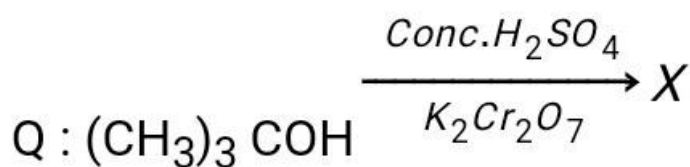
29/50



50 min



Hint



The "X" compound in the above reaction

A

Isobutylene

B

2-Methyl-but-1-ene

C

Isopropylene

D

It's not an alkene

24

25

26

27

28

29

30

49 : 22



30/50



50 min



Hint

Q : Tertiary butyl alcohol do not undergo dehydrogenation because



It does not contain α -hydrogen



It contain electron donating groups



It contain only one $-OH$ group



Steeric hindrance of alkyl groups

24

25

26

27

28

29

30

49 : 20



31/50



50 min



Hint

Q : Reaction of Phenol with bromine in polar solvent (H_2O) give

A

2, 4, 6-Tribromophenol

B

p - Bromophenol

C

o- Bromophenol

D

Mixture of o - Bromophenol and p - Bromophenol

9

30

31

32

33

34

35

49 : 18



32/50



50 min



Hint

Q : The reaction of phenol with sodium hydroxide is

A

SN reaction

B

Elimination

C

Neutralization reaction

D

Addition reaction

9

30

31

32

33

34

35

49 : 17



33/50



50 min



Hint

Q : Which of the following is more acidic in nature

A

Carbolic acid

B

Picric acid

C

Ethanol

D

Water

9

30

31

32

33

34

35

49 : 15



34/50



50 min



Hint

Q : The statement which explains the acidic behaviour of phenol



Its phenoxide ion become stable due to resonance



Phenol on treatment with Na metal produces H_2 gas



Its aqueous solution has pH around 5 or 6



All of these

9

30

31

32

33

34

35

49 : 14



35/50



50 min



Hint

Q : Which of the following is true regarding two different carbonyl compounds having molecular formula C_3H_6O (not belonging to alkenol)



Both contain only sp^3 -hybridized carbon atom



Both contain sp^3 -hybridized oxygen atom



Both contain at least one sp^3 hybridized carbon atom



Both belong to carboxylic acids

9

30

31

32

33

34

35

49 : 13



36/50

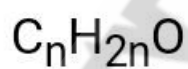
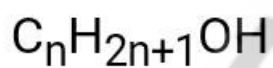
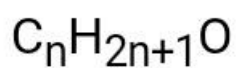
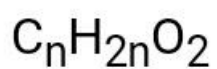


50 min



Hint

Q : The general formula for an alkanone is



35

36

37

38

39

40

4

49 : 11



37/50



50 min



Hint

Q : The alcohol which cannot be used to prepare an aldehyde by oxidation

A

Ethyl alcohol

B

Isopropyl alcohol

C

Methyl alcohol

D

Neopentyl alcohol

35

36

37

38

39

40

4

49 : 10



38/50



50 min



Hint

Q : During the oxidation of alcohol to get a carbonyl compound, which of the following is not true statement about the reaction



Oxygen is added to ethanol



Oxidizing agent is used



Hydrogen is removed from ethanol



Hybridization of alpha carbon changes

35

36

37

38

39

40

4

49 : 09



39/50



50 min



Hint

Q:



X in the above reaction is

A

B

C

D

35

36

37

38

39

40

4

49 : 07



39/50

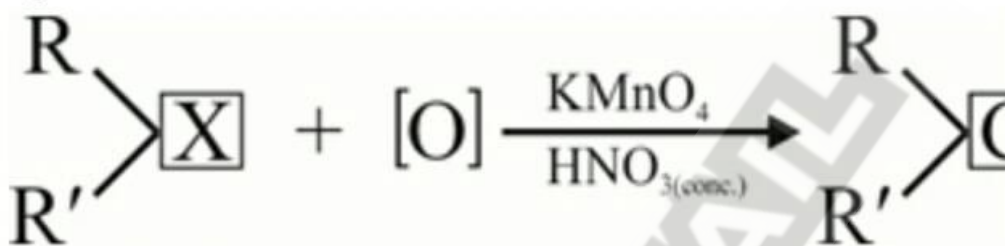


50 min



Hint

Q:



X in the above reaction is

A

 $\text{CH}_2 - \text{OH}$

B

 $-\text{CH}_3$

C

 $-\text{CHO}$

D

 $>\text{CH} - \text{OH}$

35

36

37

38

39

40

4

49 : 06



40/50



50 min



Hint

Q : If an alcohol solution is giving positive 2, 4-DNPH test then it implies that

A

It is 100% pure

B

It may contain some contents of aldehydes and ketones

C

It is ethanol

D

Alcohol contain some contents of carboxylic acid

35

36

37

38

39

40

4

49 : 05



41/50



50 min



Hint

Q : Reduction of an aldehyde using NaBH_4 gives:

A

Primary alcohol

B

Secondary alcohol

C

Tertiary alcohol

D

Phenol

35

36

37

38

39

40

41

49 : 04



42/50



50 min



Hint

Q : Acidified hydrolysis of cyanohydrins forms:

A

Carboxylic acids

B

Hydroxy carboxylic acids

C

Alcohols

D

Aldols and ketols

9

40

41

42

43

44

45

49 : 03



43/50



50 min



Hint

Q : Acetaldehyde can react with



Electrophiles only



Electrophiles and nucleophiles



Nucleophiles only



Free radicals only

9

40

41

42

43

44

45

49 : 02



44/50



50 min



Hint

Q : Which of the following ketones will produce propanoic acid only after oxidation by acidified potassium dichromate:

A

Ethyl n-propyl ketone

B

Dimethyl ketone

C

Ethyl methyl ketone

D

Diethyl ketone

9

40

41

42

43

44

45

49 : 01



45/50



50 min



Hint

Q : A compound which give both haloform and Tollen's test is

A

Methanal

B

Methyl ketone

C

Acetaldehyde

D

Acetone

9

40

41

42

43

44

45

48 : 59



46/50



50 min



Hint

Q : High quality mirrors are manufactured by using

A

2,4-DNPH

B

Cupric citrate

C

Cupric tartrate

D

Diammine silver (I) hydroxide

44

45

46

47

48

49

50

48 : 58



47/50



50 min



Hint

Q :

Unsymmetrical ketones on oxidation with strong oxidizing agent produces _____ carboxylic acids.

A

Same

B

Maybe same or different

C

Different

D

Ketones cannot be oxidized

44

45

46

47

48

49

50

48 : 57



48/50



50 min



Hint

Q : Which of the following is not a mild oxidizing agent

A

Tollen's reagent

B

Benedict's solution

C

Fehling's solution

D

Acidified potassium dichromate

44

45

46

47

48

49

50

48 : 56



49/50



50 min



Hint

Q : Which of the following will not give iodoform test?



Ethanol



3-Pentanone



Ethanal



2-Pentanone

44

45

46

47

48

49

50

48 : 55



50/50



50 min



Hint

Q : _____ on reduction generates methoxide ion as an intermediate

A

Acetaldehyde

B

Acetone

C

Methanal

D

Methanol

44

45

46

47

48

49

50



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



1/50

Q :

$\text{CH}_3 - \text{CH}(\text{Cl})\text{CH}_3$ is called as

A

Iso-propyl chloride

B

2°-Alkyl halide

C

2-Chloropropane

D

All are correct

1

2

3

4

5

6

7



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



2/50

Q :

Halogens present in haloethanes are



F, I, Br



F, At



F, Cl, Br



Cl, I

1

2

3

4

5

6

7



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



3/50

Q : Which of the following statement is incorrect



Halothane is the only inhalational anesthetic having bromine atom



CFC's destroy ozone layer in troposphere



Carbon tetrachloride is used as fire extinguisher



Both A and C are incorrect

1

2

3

4

5

6

7



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



4/50

Q : The alkyl halide molecule on which the nucleophile attacks is called:

A

Electrophile

B

Substrate

C

Leaving group

D

Electrophilic centre

1

2

3

4

5

6

7



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



5/50

Q : Primary alkyl halides give



E2 and S_N2 reactions



E1 and S_N1 reactions



Either E1 or E2 reactions



S_N2 and E1 reactions

1

2

3

4

5

6

7



Self Assessment Test (Unit-9)



Correct



Unattempted

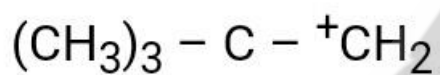


Incorrect



6/50

Q : Most stable carbonium ion is



1

2

3

4

5

6

7



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



7/50

Q : If an electrophile is the attacking reagent which one is most reactive?



R - I



R - Cl



R - Br



R - F

1

2

3

4

5

6

7



Self Assessment Test (Unit-9)



Correct



Unattempted

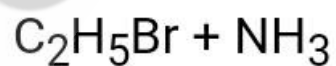
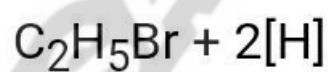
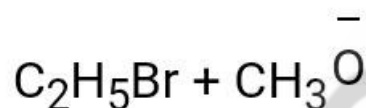


Incorrect



9/50

Q : Which pair of reactant give the primary alkyl amine as a product



5

6

7

8

9

10



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



10/50

Q : Which one among the following is good leaving group



5

6

7

8

9

10



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



11/50

Q : In SN reactions, the correct order of reactivity of alkyl halide is

A

$1^\circ > 2^\circ > 3^\circ$

B

$3^\circ > 2^\circ > 1^\circ$

C

$2^\circ > 1^\circ > 3^\circ$

D

$1^\circ > 3^\circ > 2^\circ$

8

9

10

11

12

13

14



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



12/50

Q : C - X bond is strongest in



CH₃ - F



CH₃ - Cl



CH₃ - Br



CH₃ - I

8

9

10

11

12

13

14



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



13/50

Q : Among halide (X^-) ions, the poor leaving group is



F^-



Cl^-



Br^-



I^-

8

9

10

11

12

13

14



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



14/50

Q : Which of the following mechanism is most likely to be affected by nature of leaving group

A

$SN_2 + SN_1$

B

$E_2 + E_1$

C

$SN_1 + E_1$

D

$SN_2 + E_2$

8

9

10

11

12

13

14



Self Assessment Test (Unit-9)



Correct



Unattempted



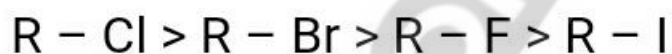
Incorrect



15/50

Q : The reactivity order of alkyl halides for Dehydrohalogenation reaction is

A



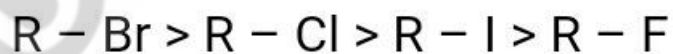
B



C



D



13

14

15

16

17

18

19



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



16/50

Q : 2-Bromopropane on reaction with alcoholic KOH gives

A

2-Propanol

B

Propane

C

1-Propene

D

1-Propanol

13

14

15

16

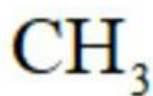
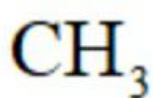
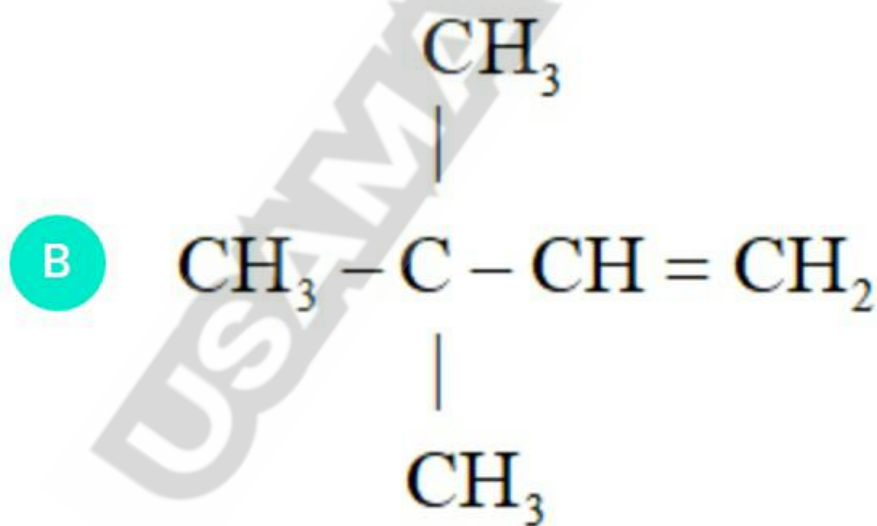
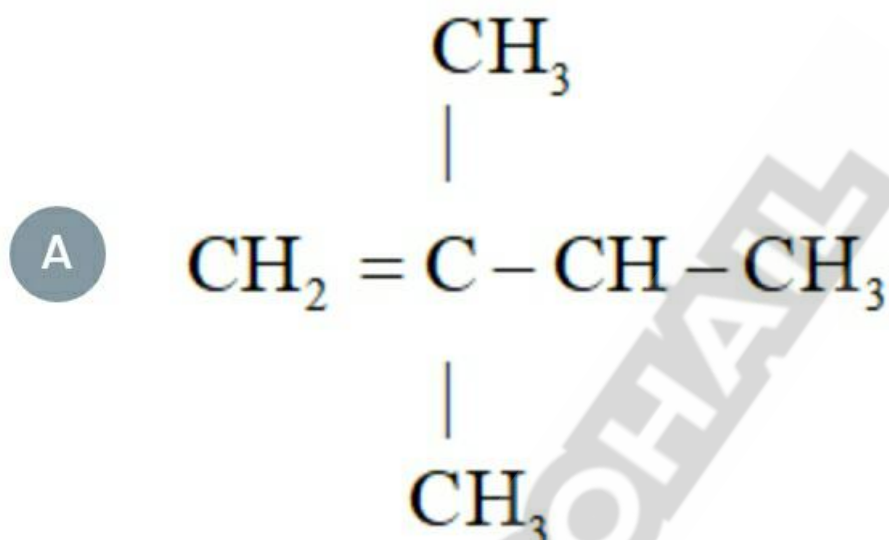
17

18

19



Self Assessment Test (Unit-9)



13

14

15

16

17

18

19



Self Assessment Test (Unit-9)



Correct



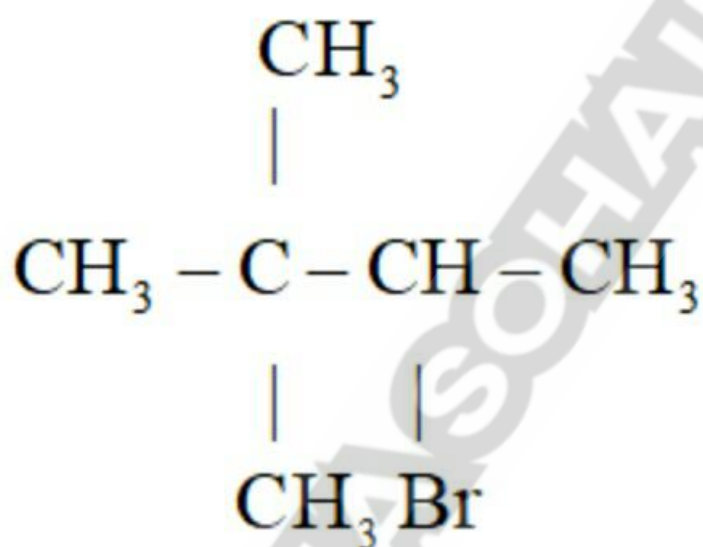
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Incorrect

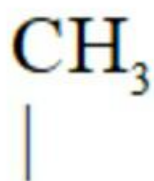


18/50



Q:

undergoes E mechanism to pr



13

14

15

16

17

18

19



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



19/50

Q : Which one is not a characteristics of alcohols



They have higher boiling point than corresponding alkanes



Their acidic character decreases with increasing carbon atoms



They are lighter than water by mass



Their solubility in water decreases with increase in molecular weight

3

14

15

16

17

18

19



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



20/50

Q : Neo-pentyl alcohol is a type of alcohol



Primary alcohol



Tertiary alcohol



Secondary alcohol



Aromatic alcohol

18

19

20

21

22

23



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



21/50

Q : The hydration of ethene in the presence of conc. H_2SO_4 or conc. H_3PO_4 produces

A

Ethanol

B

Ethanal

C

Ethane

D

Ethyne

18

19

20

21

22

23



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



22/50

Q : Acid catalyzed hydration of alkenes except ethene leads to the formation of

A

Mixture of 2° and 1° Alcohol

B

2° or 3° Alcohol

C

Mixture of 1° and 3° Alcohol

D

1° Alcohol

18

19

20

21

22

23



Self Assessment Test (Unit-9)



Correct



Unattempted

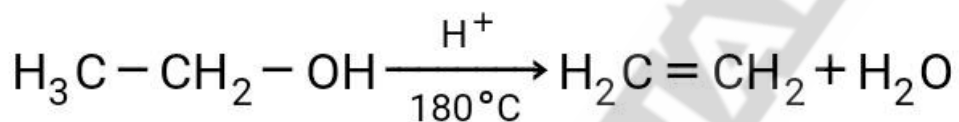


Incorrect



24/50

Q : For the reaction



The type of bonds that break are

A

C - H and C - H

B

C - H and H - O

C

C - O and C - O

D

C - H and C - O

22

23

24

25

26

27



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



23/50

Q : Ethyl hydrogen sulphate on boiling with water decompose to give corresponding alcohol . The overall reaction involves the addition of water to an alkene and it is, therefore known as



Hydration



Oxidation



Reduction



Both A and B

18

19

20

21

22

23



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



25/50

Q : When ethanol reacts with PCl_5 then products formed are:

A

$\text{C}_2\text{H}_5\text{Cl}$ and H_3PO_3

B

$\text{C}_2\text{H}_5\text{Cl}$ and HCl

C

$\text{C}_2\text{H}_5\text{Cl}$, POCl_3 and HCl

D

$\text{C}_2\text{H}_5\text{Cl}$ only

22

23

24

25

26

27



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



26/50

Q : When an unknown primary alcohol gives yellow precipitates of iodoform, it is most likely to be:

A

Methanol

B

Ethanol

C

1-Propanol

D

1-Butanol

22

23

24

25

26

27



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



27/50

Q : Which of the following is used as a catalyst for esterification:



Dil. H_2SO_4



Conc. H_2SO_4



Dilute alkali



Conc. alkali

22

23

24

25

26

27



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



28/50

Q : Distinction between methanol and ethanol can be performed by

A

Lucas test

B

Fehling's test

C

Iodoform test

D

2,4 -DNPH

26

27

28

29

30

31

32



Self Assessment Test (Unit-9)



Correct



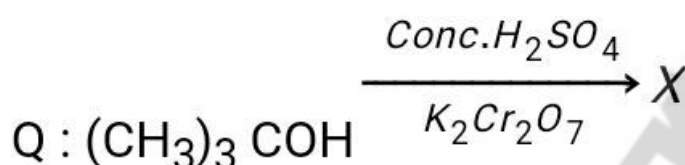
Unattempted



Incorrect



29/50



The "X" compound in the above reaction



Isobutylene



2-Methyl-but-1-ene



Isopropylene



It's not an alkene

26

27

28

29

30

31

32



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



30/50

Q : Tertiary butyl alcohol do not undergo dehydrogenation because



It does not contain α -hydrogen



It contain electron donating groups



It contain only one $-OH$ group



Steeric hindrance of alkyl groups

26

27

28

29

30

31

32



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



31/50

Q : Reaction of Phenol with bromine in polar solvent (H_2O) give

A

2, 4, 6-Tribromophenol

B

p - Bromophenol

C

o- Bromophenol

D

Mixture of o - Bromophenol and p - Bromophenol

26

27

28

29

30

31

32



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



32/50

Q : The reaction of phenol with sodium hydroxide is

A

SN reaction

B

Elimination

C

Neutralization reaction

D

Addition reaction

26

27

28

29

30

31

32



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



33/50

Q : Which of the following is more acidic in nature

A

Carbolic acid

B

Picric acid

C

Ethanol

D

Water

31

32

33

34

35

36

3



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



34/50

Q : The statement which explains the acidic behaviour of phenol



Its phenoxide ion become stable due to resonance



Phenol on treatment with Na metal produces H_2 gas



Its aqueous solution has pH around 5 or 6



All of these

31

32

33

34

35

36

3



Self Assessment Test (Unit-9)



Correct



Unattempted

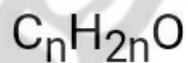
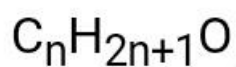
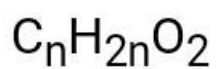


Incorrect



36/50

Q : The general formula for an alkanone is



31

32

33

34

35

36

3



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



35/50

Q : Which of the following is true regarding two different carbonyl compounds having molecular formula C_3H_6O (not belonging to alkenol)



Both contain only sp^3 -hybridized carbon atom



Both contain sp^3 -hybridized oxygen atom



Both contain at least one sp^3 hybridized carbon atom



Both belong to carboxylic acids

31

32

33

34

35

36

3



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



37/50

Q : The alcohol which cannot be used to prepare an aldehyde by oxidation

A

Ethyl alcohol

B

Isopropyl alcohol

C

Methyl alcohol

D

Neopentyl alcohol

34

35

36

37

38

39

40



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



38/50

Q : During the oxidation of alcohol to get a carbonyl compound, which of the following is not true statement about the reaction



Oxygen is added to ethanol



Oxidizing agent is used



Hydrogen is removed from ethanol



Hybridization of alpha carbon changes

34

35

36

37

38

39

40



Self Assessment Test (Unit-9)



Correct



Unattempted

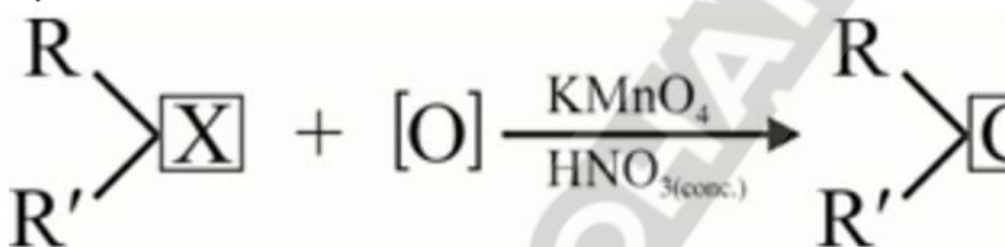


Incorrect



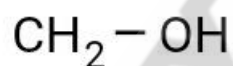
39/50

Q:



X in the above reaction is

A



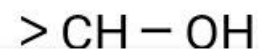
B



C



D



34

35

36

37

38

39

40



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



40/50

Q : If an alcohol solution is giving positive 2, 4-DNPH test then it implies that

A

It is 100% pure

B

It may contain some contents of aldehydes and ketones

C

It is ethanol

D

Alcohol contain some contents of carboxylic acid

34

35

36

37

38

39

40



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



41/50

Q : Reduction of an aldehyde using NaBH_4 gives:



Primary alcohol



Secondary alcohol



Tertiary alcohol



Phenol

37

38

39

40

41

42

43



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



42/50

Q : Acidified hydrolysis of cyanohydrins forms:

A

Carboxylic acids

B

Hydroxy carboxylic acids

C

Alcohols

D

Aldols and ketols

37

38

39

40

41

42

43



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



43/50

Q : Acetaldehyde can react with

A

Electrophiles only

B

Electrophiles and nucleophiles

C

Nucleophiles only

D

Free radicals only

37

38

39

40

41

42

43



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



44/50

Q : Which of the following ketones will produce propanoic acid only after oxidation by acidified potassium dichromate:



Ethyl n-propyl ketone



Dimethyl ketone



Ethyl methyl ketone



Diethyl ketone

42

43

44

45

46

47

4



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



45/50

Q : A compound which give both haloform and Tollen's test is

A

Methanal

B

Methyl ketone

C

Acetaldehyde

D

Acetone

42

43

44

45

46

47

4



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



46/50

Q : High quality mirrors are manufactured by using

A

2,4-DNPH

B

Cupric citrate

C

Cupric tartrate

D

Diammine silver (I) hydroxide

42

43

44

45

46

47

4



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



47/50

Q :

Unsymmetrical ketones on oxidation with strong oxidizing agent produces _____ carboxylic acids.

A

Same

B

Maybe same or different

C

Different

D

Ketones cannot be oxidized

42

43

44

45

46

47

4



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



48/50

Q : Which of the following is not a mild oxidizing agent

A

Tollen's reagent

B

Benedict's solution

C

Fehling's solution

D

Acidified potassium dichromate

42

43

44

45

46

47

48



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



50/50

Q : _____ on reduction generates methoxide ion as an intermediate

A

Acetaldehyde

B

Acetone

C

Methanal

D

Methanol

44

45

46

47

48

49

50



Self Assessment Test (Unit-9)



Correct



Unattempted



Incorrect



49/50

Q : Which of the following will not give iodoform test?



Ethanol



3-Pentanone



Ethanal



2-Pentanone

44

45

46

47

48

49

50



TEST

Test Level-3 (Unit-9)



50 Questions



40 min

Topics

TL-3 Unit (3C. Alkyl Halides, 4C. Alcohols and Phenols & 5C. Aldehydes and Ketones)

[Start Test](#)

39 : 57



1/50



40 min



Hint

Q : Which of the following ketone will not give iodoform test



Methyl isopropyl ketone



Ethyl isopropyl ketone



Dimethyl ketone



2-hexanone



39 : 56



2/50



40 min



Hint

Q : Dehydration of ethyl alcohol with concentrated H_2SO_4 at 180°C gives



CH_3CHO



CH_3OCH_3



C_2H_4



$\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$

1

2

3

4

5

6

7

39 : 55



3/50



40 min



Hint

Q : Which of the following reagents react in same manner with HCHO , CH_3CHO and CH_3COCH_3

A

HCN

B

Ammonical AgNO_3

C

$\text{Cu}(\text{OH})_2 / \text{NaOH}$

D

$\text{Cu}(\text{OH})_2$ only

1

2

3

4

5

6

7

39 : 54



4/50



40 min



Hint

Q : The reaction of formaldehyde with HCN is

A

Nucleophilic substitution

B

Nucleophilic addition

C

Electrophilic substitution

D

Free radical addition

1

2

3

4

5

6

7

39 : 51



7/50



40 min



Hint

Q : The compound which gives the most stable carbocation is

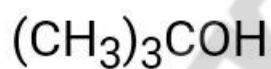
A



B



C



D



1

2

3

4

5

6

7

39 : 50



8/50



40 min



Hint

Q : How many p electrons are there in planar ring of phenol



4



6



10



8

6

7

8

9

10

11

1

39 : 52



6/50



40 min



Hint

Q : Which of the following is correct for stability of phenoxide ion



Resonating structure of benzene



Localization of p electrons in phenoxide ion



Delocalization of p electrons in phenoxide ion



All are correct statements

1

2

3

4

5

6

7

39 : 53



5/50



40 min



Hint

Q : Which one of the following is more acidic in nature



Water



Phenol



Ethanol



Ammonia

1

2

3

4

5

6

7

39 : 49



9/50



40 min



Hint

Q : When calcium formate is dry heated it forms

A

HCOOH

B

CH₃CHO

C

C₂H₅OH

D

HCHO

6

7

8

9

10

11

1

39 : 48



10/50



40 min



Hint

Q : The oxidation of which of the following compound gives ethyl methyl ketone

A

Butan-2-ol

B

Propan-2-ol

C

Butan-1-ol

D

2-methyl butan-2-ol

6

7

8

9

10

11

1

39 : 47



11/50



40 min



Hint

Q : Which of the following when dissolved in water gives a solution with pH less than 7 at 298 K

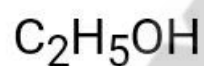
A



B



C



D



6

7

8

9

10

11

1

39 : 46



12/50



40 min



Hint

Q : Butanenitrile is formed by reaction of KCN with

A

Propyl alcohol

B

Butyl alcohol

C

Butyl chloride

D

Propyl chloride

6

7

8

9

10

11

12

39 : 44



13/50



40 min



Hint

Q : Carboxylic acids are more acidic than phenol and alcohol because of



Formation of dimmers



Highly acidic hydrogen



Resonance stabilization of their conjugate base



Intermolecular hydrogen bonding

12

13

14

15

16

17

39 : 43



14/50



40 min



Hint

Q : Phenol does not evolve CO_2 from NaHCO_3 like carboxylic acids because

A

B

C

D

12

13

14

15

16

17

39 : 42



14/50



40 min



Hint

Q : Phenol does not evolve CO_2 from NaHCO_3 like carboxylic acids because



Phenol is stronger acid than carboxylic acid



Phenol is stronger acid than carbonic acid



Phenol is weaker acid than carboxylic acid



Phenol is aromatic in nature

12

13

14

15

16

17

39 : 41



15/50



40 min



Hint

Q : Which of the following gives positive haloform test and positive Fehling solution test

A Acetone

B Acetaldehyde

C Ethanol

D Formaldehyde

12

13

14

15

16

17

39 : 40



16/50

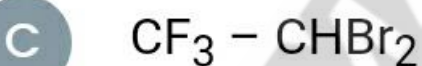
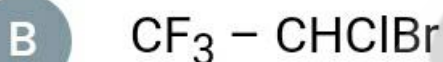
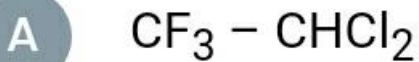


40 min



Hint

Q : Which of the following is used as general anesthetic in place of diethyl ether



12

13

14

15

16

17

39 : 39



17/50



40 min



Hint

Q : Which is NOT correct for CHCl_3

A

It is used as anaesthetic

B

It has tetrahedral shape

C

It can be used as a solvent

D

In it C is sp^2 hybridized

12

13

14

15

16

17

39 : 37



18/50



40 min



Hint

Q : In elimination reaction i.e, in the formation of alkene, the ease of elimination of halogen from alkyl halide follows the order

A Cl > Br > I

B Br > Cl > I

C I > Br > Cl

D I > Cl > Br

16

17

18

19

20

21

22

39 : 36



19/50



40 min



Hint

Q : An organic compound, "A" reacts with PCl_5 to give $\text{C}_2\text{H}_5\text{Cl}$, identify "A" among the following

A

$\text{C}_2\text{H}_5\text{Cl}$

B

$\text{C}_2\text{H}_5\text{OH}$

C

$\text{C}_2\text{H}_5\text{F}$

D

$\text{C}_2\text{H}_5\text{CN}$

16

17

18

19

20

21

22

39 : 35



20/50



40 min



Hint

Q : Identify least reactive carbonyl compound among the following

A

Propanone

B

Propanal

C

Butanal

D

Butanone

16

17

18

19

20

21

22

39 : 34



21/50



40 min



Hint

Q : Acidity of phenol is due to its _____

A

Nature of benzene

B

Double bond in benzene ring

C

Nature of phenoxide

D

Hydroxyl group

16

17

18

19

20

21

22

39 : 33



22/50



40 min



Hint

Q : Which of the following statement is NOT correct for ketone and acetaldehyde



Both form cyanohydrin when reacted with HCN



Both form alcohol on reduction



Both form acids while oxidized



Both form silver mirror with Tollen's reagent

6

17

18

19

20

21

22

39 : 31



23/50



40 min



Hint

Q : The phenol reacts with NaOH solution to produce _____ solution containing sodium phenoxide

A Blue colour

B Yellow colour

C Colourless

D Orange colour

21

22

23

24

25

26

27

39 : 29



24/50



40 min



Hint

Q : An alkyl halide reacts with NH_3 to give

A

Amide

B

Cyanide

C

Amine

D

Aniline

21

22

23

24

25

26

27

39 : 28



25/50



40 min



Hint

Q : The reaction $\text{C}_2\text{H}_5\text{Cl} + \text{aqueous KOH} \longrightarrow \text{C}_2\text{H}_5\text{OH} + \text{KCl}$ is

A

Electrophilic addition

B

Nucleophilic addition

C

Electrophilic substitution

D

Nucleophilic substitution

21

22

23

24

25

26

27

39 : 27



26/50



40 min



Hint

Q : Organic acid without a carboxylic acid group is



Lactic acid



Oxalic acid



Vinegar



Picric acid

21

22

23

24

25

26

27

39 : 26



27/50



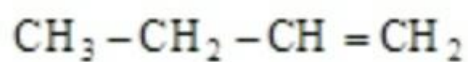
40 min



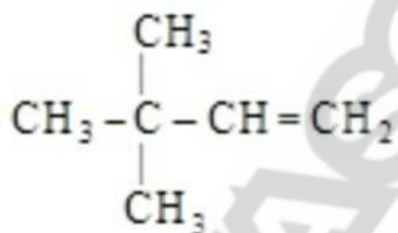
Hint

Q : The dehydration of neo-pentyl alcohol gives mainly

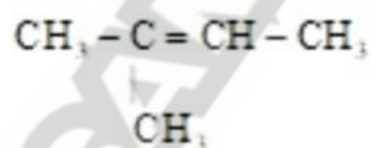
A



B



C



D

Dehydration cannot take place

21

22

23

24

25

26

27

39 : 24



28/50



40 min



Hint

Q : When 2-bromobutane reacts with alcoholic KOH, the reaction is called

A

Chlorination

B

Dehydrohalogenation

C

Halogenation

D

Hydrogenation

25

26

27

28

29

30

3

39 : 23



29/50



40 min



Hint

Q : In S_N1 reaction, the first step is formation of

A Free Radical

B Carbanion

C Carbocation

D Final product

25

26

27

28

29

30

3

39 : 22



31/50



40 min



Hint

Q : The most reactive mono-halo derivatives of ethane towards nucleophilic substitution will be

A

C_2H_5Br

B

C_2H_5I

C

C_2H_5Cl

D

All are equally reactive

25

26

27

28

29

30

31

39 : 19



32/50



40 min



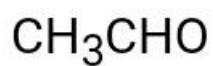
Hint

Q : Methyl alcohol on oxidation with acidified $K_2Cr_2O_7$ gives

A



B



C



D



31

32

33

34

35

36

39 : 18



33/50



40 min



Hint

Q : Which of the following alcohol cannot be produced by treatment of aldehydes or ketones with NaBH_4

A 1-Propanol

B 2-propanol

C 2-Methyl-2-propanol

D Ethanol

31

32

33

34

35

36

39 : 17



34/50



40 min



Hint

Q : 23g of Na shall react with methyl alcohol to give

A

Half mole of H_2

B

One mole of H_2

C

One mole of O_2

D

Two mole of H_2

31

32

33

34

35

36

39 : 17



35/50



40 min



Hint

Q : Propanone does not undergo

A

Condensation

B

Hydrazone formation with hydrazine

C

Reduction of Fehling solution

D

Reaction with HCN

31

32

33

34

35

36

39 : 16



36/50



40 min



Hint

Q : The reactions of phenol with conc. HNO_3 gives

A

Benzoic acid

B

Adipic acid

C

Picric acid

D

m-Nitrophenol

31

32

33

34

35

36

39 : 14



37/50



40 min



Hint

Q : Reacting phenol with bromine water the product obtained is

A

o-Bromophenol

B

2, 4, 6-Tribromophenol

C

p-Bromophenol

D

m-Bromophenol

4

35

36

37

38

39

40

39 : 13



38/50



40 min



Hint

Q : Phenoxide ion is formed from phenol by losing

A

Electron pair

B

Hydroxyl group

C

Hydrogen

D

Carbon atom

4

35

36

37

38

39

40

39 : 11



39/50



40 min



Hint

Q : In aldehydes and ketones carbon of carbonyl group is



sp^3 hybridized



sp hybridized



sp^2 hybridized



unhybridized

4

35

36

37

38

39

40

39 : 10



40/50



40 min



Hint

Q : Acetaldehyde and ketones form addition product with

A

Phenyl hydrazine

B

Hydrazine

C

Hydroxylamine

D

Hydrogen cyanide

4

35

36

37

38

39

40

39 : 08



41/50



40 min



Hint

Q : The colour of precipitate of 2, 4, 6-tribromophenol is

A

Yellow

B

Green

C

Orange

D

White

8

39

40

41

42

43

44

39 : 06



42/50



40 min



Hint

Q : In ethanol, the bond that undergoes heterolysis during its esterification with CH_3COOH in presence of H_2SO_4 is

A C - C

B C - O

C O - H

D C - H

8

39

40

41

42

43

44

39 : 05



43/50



40 min



Hint

Q : The addition compound obtained by reacting acetaldehyde and HCN, When hydrolyzed gives

A

Ethyl alcohol

B

2-Hydroxypropanoic acid

C

Methyl cyanide

D

Ethyl cyanide

8

39

40

41

42

43

44

39 : 04



44/50



40 min



Hint

Q : The alkyl halide gives nucleophilic substitution reaction with aqueous KCN and it gives _____ reaction with alcoholic KCN

A

Nucleophilic substitution

B

Addition

C

Elimination

D

Electrophilic substitution

8

39

40

41

42

43

44

39 : 02



45/50



40 min



Hint

Q : Which one is incorrect statement about Teflon



It is good insulator



It remains unaffected even on boiling with aqua regia



It is useful lubricant



It catches fire

43

44

45

46

47

48

49

39 : 01



46/50



40 min



Hint

Q : Elimination unimolecular reactions involve

A

Second order kinetics

B

First order kinetics

C

Third order kinetics

D

Zero order kinetics

43

44

45

46

47

48

49

38 : 59



47/50



40 min



Hint

Q : Which of the following alkyl halides undergoes S_N1 reaction fastest

A

Methyl chloride

B

Ethyl chloride

C

Isobutyl chloride

D

Tertiary butyl chloride

43

44

45

46

47

48

49

38 : 58



48/50



40 min



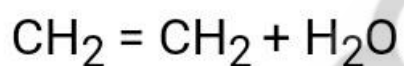
Hint

Q : In which reaction carbocation is not formed as reaction intermediate

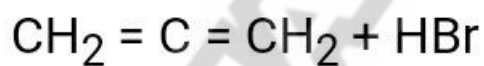
A



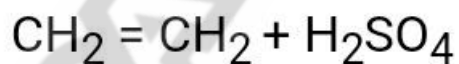
B



C



D



43

44

45

46

47

48

49

38 : 57



49/50



40 min



Hint

Q : Which of the following gives silver mirror with ammonical AgNO_3

A

Benzyl alcohol

B

Benzoic acid

C

Benzene

D

Benzaldehyde

43

44

45

46

47

48

49

38 : 55



50/50



40 min



Hint

Q : Which isomer of C_4H_9Br will produce 2-methyl propan-2-ol on treatment with aqueous KOH

A Tertiary butyl bromide

B sec-butyl bromide

C Isobutyl bromide

D n-butyl bromide

44

45

46

47

48

49

50



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



1/50

Q : Which of the following ketone will not give iodoform test

A

Methyl isopropyl ketone

B

Ethyl isopropyl ketone

C

Dimethyl ketone

D

2-hexanone

1

2

3

4

5

6

7



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



3/50

Q : Which of the following reagents react in same manner with HCHO , CH_3CHO and CH_3COCH_3



HCN



Ammonical AgNO_3



$\text{Cu}(\text{OH})_2 / \text{NaOH}$



$\text{Cu}(\text{OH})_2$ only

1

2

3

4

5

6

7



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



4/50

Q : The reaction of formaldehyde with HCN is

A

Nucleophilic substitution

B

Nucleophilic addition

C

Electrophilic substitution

D

Free radical addition

1

2

3

4

5

6

7



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



5/50

Q : Which one of the following is more acidic in nature

A

Water

B

Phenol

C

Ethanol

D

Ammonia

1

2

3

4

5

6

7



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



6/50

Q : Which of the following is correct for stability of phenoxide ion

A

Resonating structure of benzene

B

Localization of p electrons in phenoxide ion

C

Delocalization of p electrons in phenoxide ion

D

All are correct statements

1

2

3

4

5

6

7



Test Level-3 (Unit-9)



Correct



Unattempted



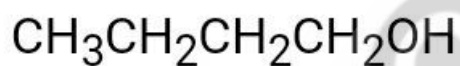
Incorrect



7/50

Q : The compound which gives the most stable carbocation is

A



B



C



D



1

2

3

4

5

6

7



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



8/50

Q : How many p electrons are there in planar ring of phenol



4



6



10



8

6

7

8

9

10

11

12



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



9/50

Q : When calcium formate is dry heated it forms

A

HCOOH

B

CH₃CHO

C

C₂H₅OH

D

HCHO

6

7

8

9

10

11

12



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



9/50

Q : When calcium formate is dry heated it forms

A

HCOOH

B

CH₃CHO

C

C₂H₅OH

D

HCHO

6

7

8

9

10

11

12



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



10/50

Q : The oxidation of which of the following compound gives ethyl methyl ketone



Butan-2-ol



Propan-2-ol



Butan-1-ol



2-methyl butan-2-ol

6

7

8

9

10

11

12



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



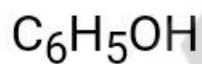
11/50

Q : Which of the following when dissolved in water gives a solution with pH less than 7 at 298 K

A



B



C



D



6

7

8

9

10

11

12



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



12/50

Q : Butanenitrile is formed by reaction of KCN with

A

Propyl alcohol

B

Butyl alcohol

C

Butyl chloride

D

Propyl chloride

6

7

8

9

10

11

12



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



13/50

Q : Carboxylic acids are more acidic than phenol and alcohol because of

A

Formation of dimmers

B

Highly acidic hydrogen

C

Resonance stabilization of their conjugate base

D

Intermolecular hydrogen bonding

11

12

13

14

15

16

17



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



14/50

Q : Phenol does not evolve CO_2 from NaHCO_3 like carboxylic acids because



Phenol is stronger acid than carboxylic acid



Phenol is stronger acid than carbonic acid



Phenol is weaker acid than carboxylic acid



Phenol is aromatic in nature

11

12

13

14

15

16

17



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



15/50

Q : Which of the following gives positive haloform test and positive Fehling solution test

A

Acetone

B

Acetaldehyde

C

Ethanol

D

Formaldehyde

11

12

13

14

15

16

17



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



17/50

Q : Which is NOT correct for CHCl_3

A

It is used as anaesthetic

B

It has tetrahedral shape

C

It can be used as a solvent

D

In it C is sp^2 hybridized

1

12

13

14

15

16

17



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



18/50

Q : In elimination reaction i.e, in the formation of alkene, the ease of elimination of halogen from alkyl halide follows the order

A

Cl > Br > I

B

Br > Cl > I

C

I > Br > Cl

D

I > Cl > Br

17

18

19

20

21

22

23



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



20/50

Q : Identify least reactive carbonyl compound among the following

A

Propanone

B

Propanal

C

Butanal

D

Butanone

17

18

19

20

21

22

23



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



21/50

Q : Acidity of phenol is due to its _____

A

Nature of benzene

B

Double bond in benzene ring

C

Nature of phenoxide

D

Hydroxyl group

17

18

19

20

21

22

23



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



22/50

Q : Which of the following statement is NOT correct for ketone and acetaldehyde



Both form cyanohydrin when reacted with HCN



Both form alcohol on reduction



Both form acids while oxidized



Both form silver mirror with Tollen's reagent

17

18

19

20

21

22

23



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



23/50

Q : The phenol reacts with NaOH solution to produce _____ solution containing sodium phenoxide

A

Blue colour

B

Yellow colour

C

Colourless

D

Orange colour

7

18

19

20

21

22

23



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



24/50

Q : An alkyl halide reacts with NH_3 to give

A

Amide

B

Cyanide

C

Amine

D

Aniline

20

21

22

23

24

25

26



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



25/50

Q : The reaction $\text{C}_2\text{H}_5\text{Cl} + \text{aqueous KOH} \rightarrow \text{C}_2\text{H}_5\text{OH} + \text{KCl}$ is

A

Electrophilic addition

B

Nucleophilic addition

C

Electrophilic substitution

D

Nucleophilic substitution

20

21

22

23

24

25

26



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



26/50

Q : Organic acid without a carboxylic acid group is

A

Lactic acid

B

Oxalic acid

C

Vinegar

D

Picric acid

20

21

22

23

24

25

26



Test Level-3 (Unit-9)



Correct



Unattempted



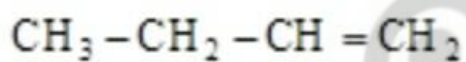
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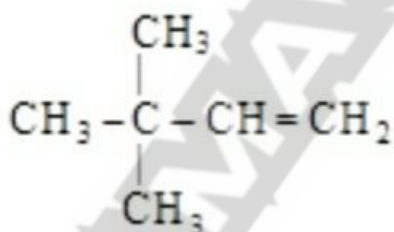
27/50

Q : The dehydration of neo-pentyl alcohol gives mainly

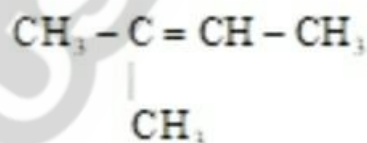
A



B



C



D

Dehydration cannot take place

25

26

27

28

29

30

31



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



28/50

Q : When 2-bromobutane reacts with alcoholic KOH, the reaction is called

A

Chlorination

B

Dehydrohalogenation

C

Halogenation

D

Hydrogenation

25

26

27

28

29

30

31



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



29/50

Q : In S_N1 reaction, the first step is formation of

A

Free Radical

B

Carbanion

C

Carbocation

D

Final product

25

26

27

28

29

30

31



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



30/50

Q : Which of the following statement is NOT correct about alcohols

A

Methanol evaporate quickly

B

Alcohols with less number of carbon atoms are less soluble

C

Ethanol is weaker acid than water

D

Alcohols with less number of carbon atoms are more soluble

25

26

27

28

29

30

31



Test Level-3 (Unit-9)



Correct



Unattempted



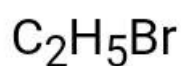
Incorrect



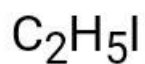
31/50

Q : The most reactive mono-halo derivatives of ethane towards nucleophilic substitution will be

A



B



C



D

All are equally reactive

25

26

27

28

29

30

31



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



31/50

Q : Which of the following statement is NOT correct about alcohols

A

B

C

D

25

26

27

28

29

30

31



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



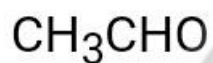
32/50

Q : Methyl alcohol on oxidation with acidified $K_2Cr_2O_7$ gives

A



B



C



D



31

32

33

34

35

36



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



33/50

Q : Which of the following alcohol cannot be produced by treatment of aldehydes or ketones with NaBH_4

A

1-Propanol

B

2-propanol

C

2-Methyl-2-propanol

D

Ethanol

31

32

33

34

35

36



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



35/50

Q : Propanone does not undergo

A

Condensation

B

Hydrazone formation with hydrazine

C

Reduction of Fehling solution

D

Reaction with HCN

31

32

33

34

35

36



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



36/50

Q : The reactions of phenol with conc. HNO_3 gives

A

Benzoic acid

B

Adipic acid

C

Picric acid

D

m-Nitrophenol

31

32

33

34

35

36



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



37/50

Q : Reacting phenol with bromine water the product obtained is

A

o-Bromophenol

B

2, 4, 6-Tribromophenol

C

p-Bromophenol

D

m-Bromophenol

4

35

36

37

38

39

40



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



38/50

Q : Phenoxide ion is formed from phenol by losing

A

Electron pair

B

Hydroxyl group

C

Hydrogen

D

Carbon atom

4

35

36

37

38

39

40



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



39/50

Q : In aldehydes and ketones carbon of carbonyl group is



sp³ hybridized



sp hybridized



sp² hybridized



unhybridized

4

35

36

37

38

39

40



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



40/50

Q : Acetaldehyde and ketones form addition product with

A

Phenyl hydrazine

B

Hydrazine

C

Hydroxylamine

D

Hydrogen cyanide

34

35

36

37

38

39

40



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



41/50

Q : The colour of precipitate of 2, 4, 6-tribromophenol is



Yellow



Green



Orange



White

38

39

40

41

42

43

4



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



43/50

Q : The addition compound obtained by reacting acetaldehyde and HCN, When hydrolyzed gives

A

Ethyl alcohol

B

2-Hydroxypropanoic acid

C

Methyl cyanide

D

Ethyl cyanide

38

39

40

41

42

43

4



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



44/50

Q : The alkyl halide gives nucleophilic substitution reaction with aqueous KCN and it gives _____ reaction with alcoholic KCN

A

Nucleophilic substitution

B

Addition

C

Elimination

D

Electrophilic substitution

43

44

45

46

47

48

49



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



45/50

Q : Which one is incorrect statement about Teflon

A

It is good insulator

B

It remains unaffected even on boiling with aqua regia

C

It is useful lubricant

D

It catches fire

43

44

45

46

47

48

49



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



46/50

Q : Elimination unimolecular reactions involve

A

Second order kinetics

B

First order kinetics

C

Third order kinetics

D

Zero order kinetics

43

44

45

46

47

48

49



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



47/50

Q : Which of the following alkyl halides undergoes S_N1 reaction fastest

A

Methyl chloride

B

Ethyl chloride

C

Isobutyl chloride

D

Tertiary butyl chloride

43

44

45

46

47

48

49



Test Level-3 (Unit-9)



Correct



Unattempted

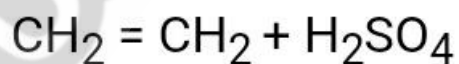
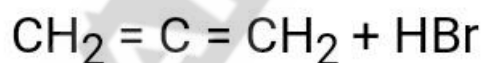
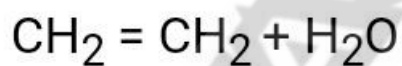


Incorrect



48/50

Q : In which reaction carbocation is not formed as reaction intermediate



43

44

45

46

47

48

49



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



49/50

Q : Which of the following gives silver mirror with ammonical AgNO_3

A

Benzyl alcohol

B

Benzoic acid

C

Benzene

D

Benzaldehyde

43

44

45

46

47

48

49



Test Level-3 (Unit-9)



Correct



Unattempted



Incorrect



50/50

Q : Which isomer of C_4H_9Br will produce 2-methyl propan-2-ol on treatment with aqueous KOH

A

Tertiary butyl bromide

B

sec-butyl bromide

C

Isobutyl bromide

D

n-butyl bromide

44

45

46

47

48

49

50