ROLL NUMBER				

SET A

INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

SUBJECT: CHEMISTRY

CLASS: XI Sub. Code: 043 Time Allotted: 50mts.

09.01.2023 Max .Marks: 20

GENERAL INSTRUCTIONS:

a. All questions are compulsory.

b. Mark for each question is indicated against the question.

1. Oxidation number of P in PO_4^{3-} is : 1

   (a) -3 (b)+7

   (c) +5 (d) +3

2. Reaction in which there is loss of electron by a species is known as 1

   a) Reduction

   b) Oxidation

   c) Displacement

   d) Disproportionation reaction

3. The IUPAC name of the given compound $CH_2=CH-CH_2-C\equiv CH$ is: 1

   (a) Pent-1-en-4-yne

   (b) Pent-4-en-1-yne

(c) Pent-1-yn-4-ene

(d) Pent-4-yn-1-ene

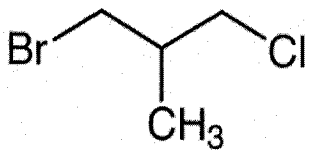
4. Identify the functional group present in the given compound 1

$CH_3CH_2CONH_2$

(a) Amine (b) Amide (c) Ketone (d) Carboxylic acid

5. Give a pair of functional isomers of C_2H_6O. 1

6. Write the IUPAC name of the given compound 1



7. Name a compound each in which oxygen exist in 1

(i) +1 oxidation state (ii) -2 oxidation state

8. Which of the following represents correct IUPAC name for the compounds? 1

(a) But-3-yn-1-ol or But-4-ol-1-yne

(b) 2,3-Dimethyl pentane or 3,4-Dimethyl pentane

9. Define metamerism. Give one example. 2

10. Balance the following equation by half reaction method: 2

$NO_3^- + Bi \rightarrow Bi^{3+} + NO_2$ (in acidic medium)

11. Draw the structure of the following organic compounds: 2

(i) 5-Oxohexanoic acid

(ii) 1,5-Dimethylcyclopent-1-ene

12. Balance the following equation by half reaction method: 3

$Zn + NO_3^- \rightarrow Zn^{2+} + NH_4^+$ **(in basic medium)**

13. (i) Differentiate between chain isomerism and position isomerism with the help of a suitable example. 3

(ii) Draw the structure of the following compounds:

(a) Anisole (b) Bromobenzene

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SET B

INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

SUBJECT: CHEMISTRY

CLASS: XI Sub. Code: 043 Time Allotted: 50mts.

09.01.2023 Max .Marks: 20

GENERAL INSTRUCTIONS:

a. ***All questions are compulsory.***

b. ***Mark for each question is indicated against the question.***

1. Oxidation number of S in $H_2S_2O_7$ is : 1

(a) +8 (b)+6

(c) +5 (d) +4

2. In this reaction: $P_4 + 3OH^- \rightarrow PH_3 + 3H_2PO_2^-$ 1

(a) OH^- is oxidising agent and P_4 is reducing agent

(b) OH^- is reducing agent and P_4 is oxidising agent

(c) OH^- is both oxidising agent and reducing agent

(d) P_4 is both oxidising agent and reducing agent

3. The IUPAC name of the compound having formula $(CH_3)_3C—CH=CH_2$ is: 1

(a) 3, 3, 3-trimethylprop-1-ene

(b) 1, 1, 1-trimethylprop-3-ene

(c) 3, 3-dimethylbut-1-ene

(d) 1, 1-dimethylbut-3-ene

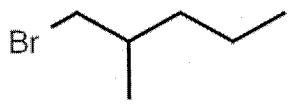
4. Which of the following is not a cyclic compound? 1

(a) Naphthalene (b) Phenol

(c) Cyclohexane (d) Neopentane

5. Give a pair of functional isomers of C_3H_6O. 1

6. Write the IUPAC name of the given compound 1



7. Name a compound each in which oxygen exist in 1

(i) +2 oxidation state (ii) -2 oxidation state

8. Which of the following represents correct IUPAC name for the compounds? 1

(a) 3-Methyl-1-propylcyclohexane or 1-Methyl-3-propylcyclohexane

(b) 2, 4, 7-Trimethyloctane or 2, 5, 7-Trimethyloctane

9. Balance the following equation by half reaction method: 2

$$\mathbf{MnO_4^- + Br^- \rightarrow Mn^{2+} + Br_2} \qquad \textbf{[in acid medium]}$$

10. With the help of suitable example differentiate between position isomerism and chain isomerism. 2

11. Draw the structure of the following organic compounds: 2

(i) 2,3-Dibromo -1-phenyl pentane

(ii) 2-Fluoro-3-hydroxybutanoic acid

12. Balance the following equation by half reaction method: 3

$Cr(OH)_3 + IO_3^- \rightarrow I^- + CrO_4^{2-}$ **(in basic medium)**

13. (i) Define metamerism. Give one example. 3

(ii) Draw the structure of the following compounds

(a) Toluene (b) Nitrobenzene

ROLL NUMBER				

SET C

INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

SUBJECT: CHEMISTRY

CLASS: XI Sub. Code: 043 Time Allotted: 50mts.

09.01.2023 Max .Marks: 20

GENERAL INSTRUCTIONS:

a. All questions are compulsory.

b. Mark for each question is indicated against the question.

1. Oxidation number of S in H_2SO_4 is : 1

(a) +2 (b)+7

(c) +6 (d) +4

2. Reaction in which there is gain of electron by a species is known as 1

a) Reduction

b) Oxidation

c) Displacement

d) Disproportionation reaction

3. The IUPAC name of the given compound **CH_3-CH_2-CH_2-CH=CH-C≡CH** is: 1

(a) Hept-2-en-4-yne

(b) Hept-1-en-4-yne

(c) Hept-2-en-5-yne

(d) Hept-3-en-1-yne

4. Identify the functional group present in the given compound 1

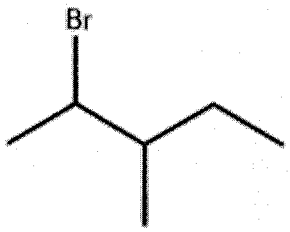
$CH_3CH_2CO(CH_2)_3CH_3$

(a) Amine (b) Amide

(c) Ketone (d) Carboxylic acid

5. Give a pair of functional isomers of C_2H_6O 1

6. Write the IUPAC name of the given compound 1



7. Name a compound each in which Hydrogen exist in 1

(i) +1 oxidation state (ii) -1 oxidation state

8. Which of the following represents correct IUPAC name for the compounds? 1

(a) 1-Ethyl-2-methylcyclopentane or 1-Methyl-2-ethylcyclopentane

(b) 4-Chloro-2-methylpentane or 2-Chloro-4-methylpentane

9. Define metamerism. Give one example. 2

10. Balance the following equation by half reaction method: 2

$Br_2 + H_2O_2 \rightarrow BrO_3^- + H_2O$ (in acidic medium)

11. Draw the structure of the following organic compounds: 2

(i) 3- Hydroxy -4- phenylbutanal

(ii) 5,6-Dimethylcyclohex-2-en-1-one

12. Balance the following equation by half reaction method: 3

$MnO_4^- + I^- \rightarrow MnO_2 + I_2$ **(in basic medium)**

13. (i) Differentiate between chain isomerism and position isomerism with the help of an example. 3

(ii) Draw the structure of the following compounds

(a) o-Ethyl anisole (b) 1,3-Dinitrobenzene