CLASSFICATION

- 1. The hybrid sate of C atoms which are attached to a single bond with each other in the following structure are: $CH_2=CH-C=CH$
 - $(1) sp^2, sp$
- (2) sp³, sp
- (3) sp², sp²
- (4) sp², sp³
- 2. The third member of the homologous series of aliphatic aldehydes has the structure :-
 - (1) CH₃CH₂CHO

(2) CH₃(CH₂)₂CHO

(3) CH₃COCH₂CH₃

- (4) CH₃COCH₃
- 3. Molecular formula $C_4H_8O_2$ represents :-
 - (1) An acid only

(2) An ester only

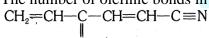
(3) An alcohol only

- (4) An acid and an ester also
- 4. The higher homologue of dimethylamine (CH₃-NH-CH₃) has the structure :-
 - (1) CH_3 –N– CH_3

(2) CH₃–CH₂–CH₂–NH₂

ĆH₃
(3) CH₃–NH–CH₂–CH₃

- (4) CH₃-CH-CH
- 5. The third member of the family of alkenynes has the molecular formula:-
 - $(1) C_6 H_6$
- (2) C_5H_6
- $(3) C_6 H_8$
- $(4) C_4H_4$
- 6. The number of olefinic bonds in the given compound is/are:-



(1) 2

(2) 3

(3) 1

- (4) 4
- 7. The number of acetylinilic bonds in the given compound is/are:-

(1) 2

(2) 3

(3) 1

- (4)4
- **8.** The number of C-atoms in second member of an ester is/are:-
 - (1) 2

(2) 3

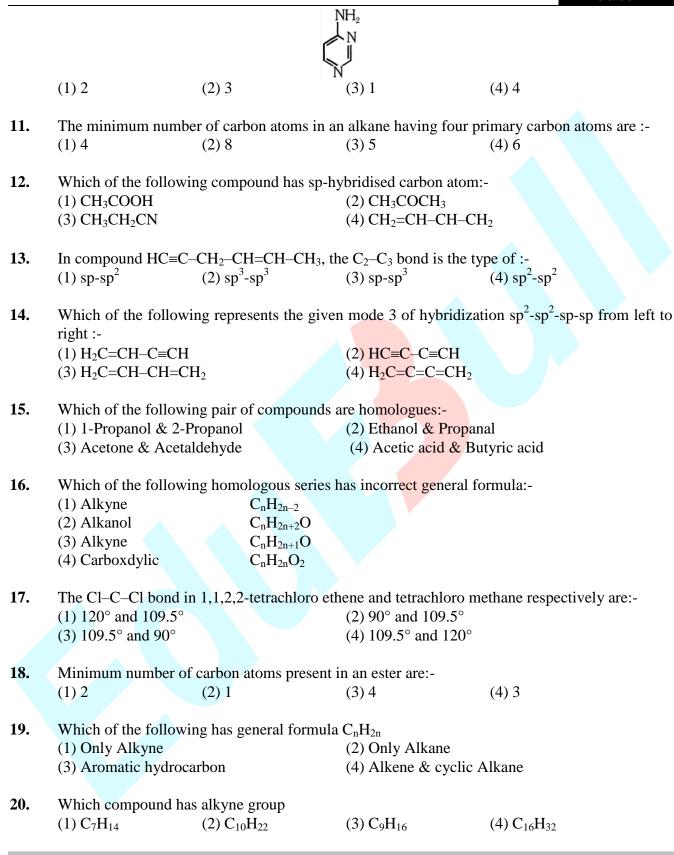
(3)4

- (4)5
- **9.** Which of the following is an example of symmetrical or simple ether:-
 - (1) $CH_3 C CH_3$

- $(2) CH_3-O-CH_2-CH_3$
- (3) CH₃–CH₂–O–CH₂–CH₂–CH₃
- (4) CH₃-CH-O-CH-CH₃
- **10.** The number of hetero atoms present in the following compound is/are:

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COMMON AND DERIVED NAME

21. Which of the following are tertiary radicals:-

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- (1) a and b
- (2) band c
- (3) a and c
- (4) band d

22. Common name of the given compound is :-

- (1) vinyl acetate
- (2) aeryl Acetate
- (3) methyl acrylate
- (4) Vinyl ethanoate
- 23. A primary amine has amino group (-NH₂) attached to:-
 - (1) A primary carbon atom only
 - (2) A secondary carbon atom only
 - (3) A tertiary carbon atom only
 - (4) A primary, secondary or tertiary carbon atom
- 24. Which of the following are secondary radicals:

(a)
$$CH_3 - CH - C_2H_5$$
 (b) $CH_2 = C - CH_3$
(c) $CH_2 = CH$ (d) $(CH_3)_2CH$

(b)
$$CH_2 = C - CH$$

(c)
$$CH_2 = CH -$$

- (1) a, b, c
- (2) a, d, c
- (3) b, c, d
- (4) a, b, d

25. Examine the following structures:-

Which of the following statement is correct:-

- (1) A is tertiary alcohol while B is tertiary amine
- (2) A is primary alcohol while B is primary amine
- (3) A is tertiary alcohol while B is primary amine
- (4) A is primary alcohol while B is tertiary amine
- **26.** Which of the following is not a correct match

$$\begin{array}{c} CH_3 \\ \downarrow \\ H_3C - C - CH_{\overline{2}} \longrightarrow Neopentyl \\ \downarrow \\ CH_3 \end{array}$$

$$\begin{array}{ccc} & & & CH_3 \\ & & & & \\ H_3C - C - & & \\ & & & \\ (2) & & CH_3 & & \\ \end{array} \Rightarrow \text{Neobutyl}$$

(3) HC≡C–CH₂–

(1)

- \Rightarrow Propargyl
- (4) $CH_2=CH-CH_2- \Rightarrow Alyl$

IUPAC NAME

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27. The IUPAC name for isobutyl chloride is :

- (1) 2-Methyl-2-chloro butane
- (3) 1-Chloro-2-methyl propane
- (2) 2-Chloro-2-methyl butane(4) 2-Methyl-3-chloro propane

28. IUPAC name of given compound is :

(1) 3-carboxy-2-pentene

- (2) 2-Ethylidene butanoic acid
- (3) 2-Ethyl-2-butenoic acid
- (4) 3-Ethyl-2-buten-4-oic acid

29. The IUPAC name for the given structure is :-

- (1) 3-lsojxopyl-4-methylhexane
- (3) 3-Ethyl-2,5-dimethylhexane
- (2) 4-lsopropyl-3-methylhexane
- (4) 2-Ethyl-3-isopropylpentane

30. The IUPAC name for

$$CH_3$$
— C — NH_2 and CH_3 — C — CI are :-

- (1) 1-Amino-1-oxo ethane, 1-chloro ethanol
- (2) 1-Amino ethanal, acetoyl chloride
- (3) 1-Oxoethanamine, ethanoyl chloride
- (4) Ethanamide, Ethanoyl chloride

31. The number of carbon atoms in the principle chain of the given compound are :-

$$CH_3-CH_2-CH_2-C-COOH$$
 $OHC-C-CH_2-CH_3$
(1) 7 (2) 5 (3) 4 (4) 6

32. The IUPAC name of given compound is :-

$$CH_3$$
 CH_3
 $C=C-C-CH_3$
 CH_3

- (1) Methyl tertiarybutyl acetylene
- (2) t-Butyl propyne
- (3) 4,4-Dimethyl-2-pentyne
- (4) 1,3,3,3-Tetramethyl ethyne

33. The IUPAC name of the compound is:

- (1) 4-Amino-2-methoxy-1-amino-2-butene
- (2) 4-Amino-3-methoxy-2-butenamide
- (3) 2-Methoxy-1 ,4-diamino-2-butenal

(4) 1-Arriino-2-methoxy-3-c:unino propene

34. The IUPAC name of CH₃–CH₂–NH–CH₃ is:

(1) Methyl ethyl amine

(2) 1-methyl amino ethane

(3) N-methyl ethan amine

(4) N-ethyl methan amine

35. The IUPAC name for the compound is :-

$$\bigcirc$$
-c \bigcirc

37.

38.

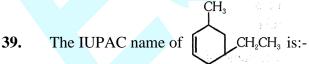
- (1) Cydohexanoyl chloride
- (3) 1-Chloro cyclohexanal

- (2) Cyclohexane carbonyl chloride
- (4) Chloro cyclohexyl methanal

- (1) 3-Methyl-2-pwnten-4-yne
- (3) 3-Methyl-4-pentyn-1-ene
- (2) 2 Mathyl 4 party 1 and
- (2) 3-methyl-3-penten-1-yne
- (4) 3-Methyl pentenyne

The IUPAC name of the structure is:-

- (1) 3-Isopropyl-5,5-dimethyl heptanes
- (2) 5-Ethyl-3,3,6-trimethyl heptane
- (3) 3,3-Dimethyl-5isopropyl heptane
- (4) 3-Ethyl-2,5,5-trimethyl heptanes
- CH_3 has the IUPAC name:-
- (1) 3-Chloro-1-ethyl-2-methyl cyclopentane
- (2) 1-Chloro-3-ethyl-2-methyl cyclopentane
- (3) 4-Chloro-:-1-ethyl-5-methyl cyclopentane
- (4) All are correct



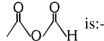
- 1) 1-Methyl-5-ethyl cyclohex-2-ene
- (2) 5-Ethyl-3-methyl cyclohex-1-ene
- (3) 4-Ethyl-6-methyl cyclohex-1-ene
- (4) 1-Hhyl-5-methyl cyclohex-3-ene
- 40. H—C—CN in IUPAC called:-

	(1) Cyano methanol (3) Cyano ethanol	(4) Formonitrile										
41.	The IUPAC name .for the compound is:-											
	(1) 2-Acetyl prop-1-ene	(2) Pent-l-enA-one										
	(3) Pent-4-en-2-one	(4) Formyl propene										
42.	Which is incorrect IUPAC name:-											
	(1) 3-Pentyne(3) 2-Ethyl-3-methyl-1-butene	(2) 3-Methyl-2-butanone(4) 3-Ethyl-2-methyl pentane										
43. The IUPAC name of $H_2N-\bigcirc\bigcirc$ -OCH ₃ is:-												
	(1) 1-Methoxy-4-amino benzene(3) 4-Methoxy aniline	(2) Aminophenyl methyl ether (4) None of the above										
44.	The IUPAC name of the given compound is:- OH CH2-CH2OH											
	HO-CH ₂ -CH-CH-CH ₂ OH											
	(1) 3-Hydroxymethyl pentane-1,4,5-triol											
	(2) 3-Hydroxyethyl butane-1 ,2,4-triol (3) 4-Hydroxyethyl-1 ,2,4-trihydroxy butan	e.										
	(4) 3-Hydroxymethyl pentane-1,2,5-triol											
45.	The IUPAC name of the given compound is:- ÇH ₂ —CN											
	¢H—CN											
	ĊH₂—CN (1) 1,2,3-Tricarbonitrile propane	(2) Pro pane-l, 1, 1-tricarbylamine										
	(3) Propane-1,2,3-tricarbonitrile	(4) 3-Cyano pentane dicyanide										
46.	Number of carbon atoms in the principle carbon chain in the given compound are :- $CH_3 - CH_2 - CCOOH$ CH_2											
	(1) 4 (2) 3	(3) 2 (4) 5										
47.	Wrong IUPAC-name is:- (1) CH ₃ CH ₂ CONH ₂ Propanamide (2) CH ₃ CH ₂ COOCH ₃ Methyl propqnoa CH ₃	ite										
	(3) CH ₃ -CH-CH=CH-CH ₃ 2-Methyl pent-3- ene (4) CH ₃ CH ₂ -O-CH-CH ₃ 2-Ethoxy butane CH ₂ - CH ₃											
	$\dot{C}H_2 - CH_3$											

Power by: VISIONet Info Solution Pvt. Ltd Website : www.edubull.com Mob no.: +91-9350679141 48. The IUPAC name of the compound



- (1) 2-Methyl cyclopent-l-en-2-o1
- (2) 3-Methyl cyclopent-2-en-1-ol
- (3) 2-Methyl cyclopent-2-en-1-ol
- (4) 3-Methyl cyclopent-1-en-2-ol
- The IUPAC name of is:-49.



- (1) Acetic anhydride
- (3) Butane- 2, 4-dione

- (2) Formyl ethanoate
- (4) Ethanoic methanoic anhydride
- **50.** The IUPAC name of given compound is:-·OH



- (1) 3,3-Dimethyl-1-hydroxy cyclohexane
- (2) 1, 1-Dimethyl-3-hydroxy cyclohexane
- (3) 3,3-Dimethyl-1-cyclohexanol
- (4) 1, 1-Dimethyl-3-cyclohexanol
- 51. IUPAC name of (CH₃)₂CHCH(CH₃)₂ is :-
 - (1) 2,2-Dimethyl butane
 - (3) 2,4-Dimethyl butane

- (2) 2,3-Dimethyl butane
- (4) 1-Methyl pentane
- 52. IUPAC name of CH₂=CH–CH₂-Cl is :
 - (1) Allyl chloride
 - (3) 3-Chloro-1-propene

- (2) 1-Chloro-3-propene
- (4) Vinyl chloride
- The IUPAC name of the following group CH₂=C- is:-**53.**
 - CH₃

- (1) Isopropenyl
- (3) 2-Methylethylnyl

- (2)1-Methylethenyl
- (4) None of the above
- 54. CH₃-CH=CH-C≡CH has IUPAC name:
 - (1) Pent-2-en-4-yne

(2) Pent-4-yn-2-ene

(3) Pent-l-yn-3-ene

- (4) Penh3-en-l-yne
- 55. The IUPAC name of the following compound

(1) 3, 4 - Dimethyl octane

(2) 3-sec pentyl pentane

(3) 3, 4 - Diethyl hexane

(4) 3, 4 - Dimethyl hexane

- **56.** Correct IUPAC name is:
 - (1) 3-Methyl-2- ethylpentane
- (2) 2-Ethyl- 3-methylpentane

(4) 2-Ethyl- 2-methylpentane

ANSWER KEY

EXERCISE-I													
1.	(1)	2.	(1)	3.	(4)	4.	(3)	5.	(3)	6.	(1)	7.	(3)
8.	(2)	9.	(4)	10.	(1)	11.	(3)	12.	(3)	13.	(3)	14.	(1)
15.	(4)	16.	(3)	17.	(1)	18.	(1)	19.	(4)	20.	(3)	21.	(3)
22.	(1)	23.	(4)	24.	(4)	25.	(3)	26.	(2)	27.	(3)	28.	(3)
29.	(3)	30.	(4)	31.	(2)	32.	(3)	33.	(2)	34.	(3)	35.	(2)
36.	(2)	37.	(4)	38.	(2)	39.	(2)	40.	(2)	41.	(3)	42.	(1)
43.	(3)	44.	(4)	45.	(3)	46.	(2)	47.	(3)	48.	(3)	49.	(4)
50.	(3)	51.	(2)	52.	(3)	53.	(2)	54.	(4)	55.	(3)	56.	(3)



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