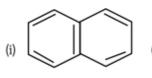
## KD EDUCATION ACADEMY (9582701166)

STD 11 Science Time: 5 Hour kd 700+ neet ch-9 hydrocarbon

## [600] \* Chemistry

1. Consider the following compounds/species:

The number of compounds/species which obey Huckel's rule is ........



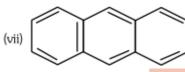














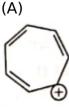


(D) 2

Total Marks: 600

2. Which compound amongst the following is not an aromatic compound?

(A) 6



(B)



(D)



- 3. Compound X on reaction with  $O_3$  followed by  $Zn/H_2O$  gives formaldehyde and 2-methyl propanal as products. The compound X is :
  - (A) 2-Methylbut-1-ene

(B) 2-Methylbut-2-ene

(C) Pent-2-ene

- (D) 3-Methylbut-1-ene
- $CH_{3}CH_{2}COO^{-}Na^{+}\xrightarrow{NaOH,+?}CH_{3}CH_{3}+Na_{2}CO_{3}.$

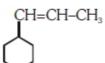
Consider the above reaction and identify the missing reagent/chemical.

- (A)  $B_2H_6$
- (B) Red Phosphorus
- (C) CaO
- (D) DIBAL H
- 5. An alkene on ozonolysis gives methanal as one of the product. Its structure is

(A)



(B)



(C)

(D)

6. Which of the following alkane cannot be made in good yield by Wurtz reaction?

Page 1

(A) n-Butane

(B) n-Hexane

(C) 2,3- Dimethylbutane

(D) n-Heptane

7. In the following reaction,

$$\mathrm{CH_3} - \mathrm{C} \equiv \mathrm{CH} \xrightarrow{\mathrm{red \ hot \ iron \ tube}} \mathrm{A}$$

the number of  $sigma(\sigma)$  bonds present in the product A is

(A) 21

(B) 9

(C) 24

- (D) 18
- 8. The most suitable reagent for the following conversion is

$$H_3C-C\equiv C-CH_3$$
 $H_3C$ 
 $CH_3$ 
 $CH_3$ 

- (A)  $Na/lquid\ NH_3$
- (B)  $H_2$ , Pd/C, quinoline
- (C) Zn/HCl
- (D)  $Hg^{2+}/H^+, H_2O$
- 9. Match the catalyst with the process

Catalyst	KULDEEP VE PROCESS M. 9582701166
$(i)~{ m Na_2O}$	(a) The oxidation of ethyne to ethanal
$(ii) \; { m TiCl_4 + Al(CH_3)_3}$	(b) Polymerisation of alkynes Subjects
$(iii)~{ m PdCl_2}$	(c) Oxidation of $SO_2$ in the manufacture of MATHS, PHYSICS, CHEMISTRY, (By KD Sir) BIOLOGY, HISTORY, ECO, POLITY, GEOGRAPHY
(iv) Nickel complexes	(A) see to great the Boaks case (C) as a fun Boaks (C

Which of the following is the correct option up? Hardware Bangali Colony, Sant Nagar, Burari, Delhi- 110084

(A) i - c, ii - d, iii - a, iv - b

(B) i - a, ii - b, iii - c, iv - d

(C) i-a, ii-c, iii-b, iv-d

- (D) i-c, ii-a, iii-d, iv-b
- 10. Which one is the correct order of acidity?

(A) 
$$CH \equiv CH > CH_3 - C \equiv CH > CH_2 = CH_2 > CH_3 - CH_3$$

(B) 
$$CH \equiv CH > CH_2 = CH_2 > CH_3 - C \equiv CH > CH_3 - CH_3$$

(C) 
$$CH_3 - CH_3 > CH_2CH_2 > CH_3 - C \equiv CH > CH \equiv CH$$

(D) 
$$CH_2 = CH_2 > CH_3 - CH = CH_2 > CH_3 - C \equiv CH > CH \equiv CH$$

11. In pyrrole the electron density is maximum on



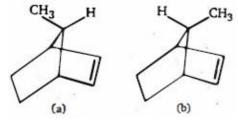
- (A) 2 and 3
- (B) 3 and 4
- (C) 2 and 4
- (D) 2 and 5
- Page 2
- 12. Which of the following can be used as the halide component for Friedel-Crafts reaction?

	(A) Chlorobenzene		(B) Bromobenzene	
	(C) Chloroethane		(D) Isopropyl chloride	
13.	The pair of electrons the following orbitals	J	n, $CH_3C\equiv C^-,$ is prese	nt in which of
	(A) $sp^2$	(B) <i>sp</i>	(C) $2p$	(D) $sp^3$
14.	The compound that formula	will react most reac	lily with gaseous bro	mine has the
	(A) $C_3H_6$	(B) $C_2H_2$	(C) $C_4H_{10}$	(D) $C_2H_4$
15.	In the given reaction,	the product $P$ is		
	(A)	(B)	(C)	(D)
16.	In the reaction	KULDEEP VERMA SIR	M. 9582701166 ATION ACADEMY	
	$H-C \equiv CH \stackrel{(i)~NaNH_2~/}{$	$\longrightarrow X$	to 8th All Subjects MATHS, SCIENCE & S.ST	
	$\stackrel{(i)~NaNH_2~/~liq.~NH_3}{\longrightarrow} Y$		11th & 12th SICS, CHEMISTRY, (By KD Sir)	
	$\stackrel{(ii)\ CH_3CH_2Br}{X}$ and $Y$ are	BIOLOGY, HISTO  OV. Marks in Every Subjects LASS-10th BOARD CISS		
	(A) $X=2-Butyne,Y$	95% Marks in (PCM) "We Believe on I	result rather than promises" हे डान्डी हे डान्डे डान्डिह	
	(B) $X = 1$ -Butyne, $Y = 1$	reduction (B.SC Electrolics Hons. Regular)  and No. 20   College   College	upta Hardware Bangali Colony, Sant Nagar, Burari, Delhi- 110084	
	(C) $X = 1$ -Butyne, $Y = 1$	= 3-Hexyne		
	(D) $X=2-Butyne,Y=$	= 3-Hexyne.		
17.	The oxidation of ber tempreture	izene by $V_2O_5$ in the	presence of air produ	ices and high
	(A) maleic anhydride	(B) benzoic acid	(C) phenol	(D) benzoic anhydride.
18.	Which of the following	g chemical system is n	on aromatic ?	
	(A)	(B)	(C)	(D)
			$\langle \rangle$	
19.	Which of the follow easily?	ing compounds will r	not undergo Friedal-Cr	aft's reaction Page 3
	(A) Nitrobenzene	(B) Toluene	(C) Cumene	(D) Xylene

20.	Some $meta-$ directing is most deactivating?	្យ substituents in aroma	tic substitution are giv	en. Which one
	(A) $-COOH$	(B) $-NO_2$	(C) $-C \equiv N$	(D) $-SO_3H$
21.	The bond length between	veen the hybridised car	rbon atom and other c	arbon atom is
	(A) Butane	(B) Propyne	(C) Propene	(D) Propane
22.	Ozonolysis of acetyler	ne gives		
	(A) Glycol		(B) Glyoxal,formic acid	I
	(C) Formaldehyde		(D) None	
23.	If acetylene is passed compound formed is	through an electric ar	c in the atmosphere of	f nitrogen, the
	(A) HCN	(B) Pyrrole	(C) Pyrazole	(D) Pyridine
24.	$KMnO_4$ will oxidise a	cetylene to		
	(A) Ethylene glycol	(B) Ethyl alcohol	(C) Oxalic acid	(D) Acetic acid
25.	Propyne on polymeris	sation gives		
	(A) Mesitylene	(B) Benzene	(C) Ethyl benzene	(D) Propyl benzene
26.	A gas decolourises b silver nitrate. The gas	romine in <i>CCl</i> <sub>4</sub> and fo	orms a precipitate with	h ammoniacal
	(A) $C_2H_2$	(B) $C_2H_4$ One Day Day-1 9th & 10 M	to 8th All Subjects $\stackrel{ }{\sim} (C) \stackrel{SC EMCE}{\sim} \&  ext{S.ST}$	(D) <i>CH</i> <sub>4</sub>
27		g reacts with sodium w	11th & 12th	
۷,۰	(A) $CH_4$	DIOLOGI, HIGTO	$\Gamma(C) \Gamma C_2 H_4$ , CUET	(D) $C_2H_2$
28.		CLASS-10th Banks in (PCM)  Ocar bon among these		. ,
		certificate from 1830 Including in S. Pictorneck Hose. Reputer From Vi (B) AdMethane; No. 21, A-1 Block Near Gu		(D) Ethyne
29.		omeric pentabrornides	s will be formed in	the following
	reaction ?			
	2Br <sub>2</sub> CCl <sub>4</sub>	<b>→</b>		
	(A) 2	(B) 3	(C) 4	(D) None of these
30.	major product of this	reaction is		
	HCHO, H*			Page 4
	(A)	(B)	(C)	(D)
	ОН	ОН	CH <sub>2</sub> - OH	ОН
		ОН		

31. An organiccompound $C_4H_6$ on ozonolysis give $HCHO,CO_2,CH_3CH$ will be	IO. Compound
(A) $H_2C=CH-CH=CH_2$ (B) $CH_3-CH=C=C$	$^{\prime}H_{2}$
(C) $CH_3-C\equiv C-CH_3$ (D)	
32. Product of the reaction is	
CH <sub>3</sub>	
$\frac{(1) \text{ BH}_{3}; \text{ THF}}{(2) \text{ H}_{2}\text{O}_{2}, \text{HO}^{-}} \rightarrow (A)$	
(A) (B) (C)	(D)
CH <sub>3</sub> CH <sub>3</sub> CH <sub>3</sub> H	CH <sub>3</sub>
H OH	Ä
H OH H OH H	H CH3
33. Product is	
N 0500704466	
С-о-о-н М. 9582701166	
CH <sub>3</sub> (MCPBA)	
$C = C$ $CH_2CI_2$ $CH_2CI_2$ Product, SCIENCE & S.ST	
MCPBA   Metachloroperbenzoic acid  MCPBA   Metachloroperbenzoic acid  MCPBA   Metachloroperbenzoic acid  MCPBA   Metachloroperbenzoic acid	
(A) (IIT- JEE, NEFT, NDA, CUET CLAS (B) BOARD CESE (C)	(D)
CH3  H  CH3  H  CH3  CH3  CH3  CH3  CH3	William Accounts
Certific Cer	H_ CH <sub>3</sub>

34. Rate of reaction towards reduction using  $\left(H_2/Pt\right)$ 



Page 5

- (A) a > b
- (B) a = b
- (C) b > a
- (D) Reduction of given molecule is not possible
- 35. cis- 2 -butene  $\xrightarrow{HBr}$  product ; Product of the reaction is

  (A) Racemic (B) Diastereomer (C) Meso (D) E and Z isomer

36. Product of the reacion is

$$CH_3$$
  $C = C$   $CH_3$   $H_2$   $CH_3$ 

(A) Racemic

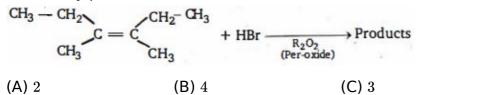
(B) Diastereomers

(C) Meso

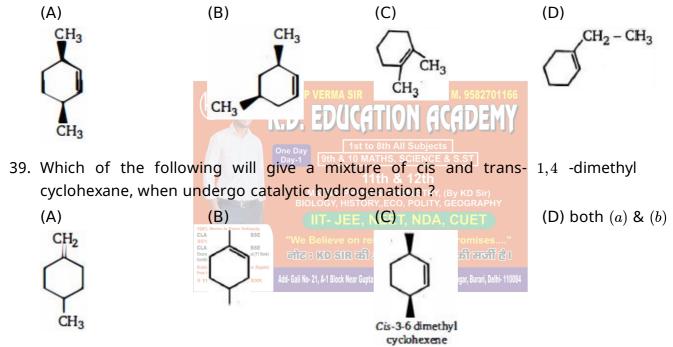
(D) Pure enantiomers

(D) 6

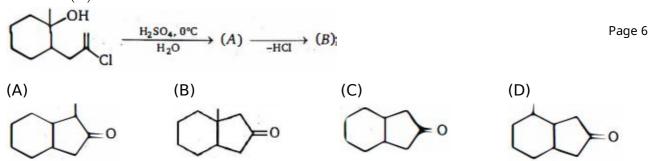
37. How many products will be formed in above reaction?



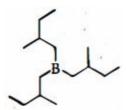
38. An optically active compound A with molecular formula  $C_8H_{14}$  undergoes catalytic hydrogenation to give mesa compound, the structure of (A) is



40. Product (B) of the reaction is



41. Which of the following compound would yield trialkylborane shown below when treated with  $BH_3/THF$ ?

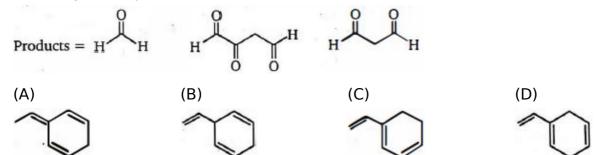


(A) 2 -methylbut- 1 -ene

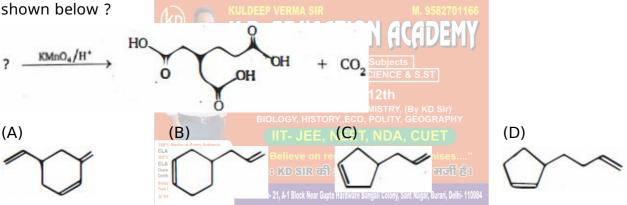
(B) 2 -methylbut- 2 -ene

(C) 3 -methylbut- 1 -ene

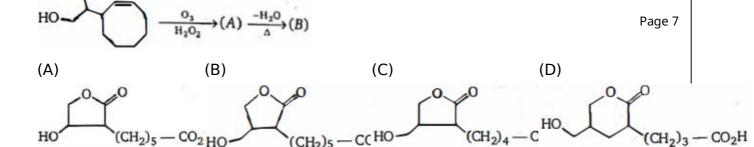
- (D) 3 -methylbut- 1 -yne
- 42. A triene is treated with ozone followed by zinc in acetic acid to give the following three products. What is the structure of the triene?



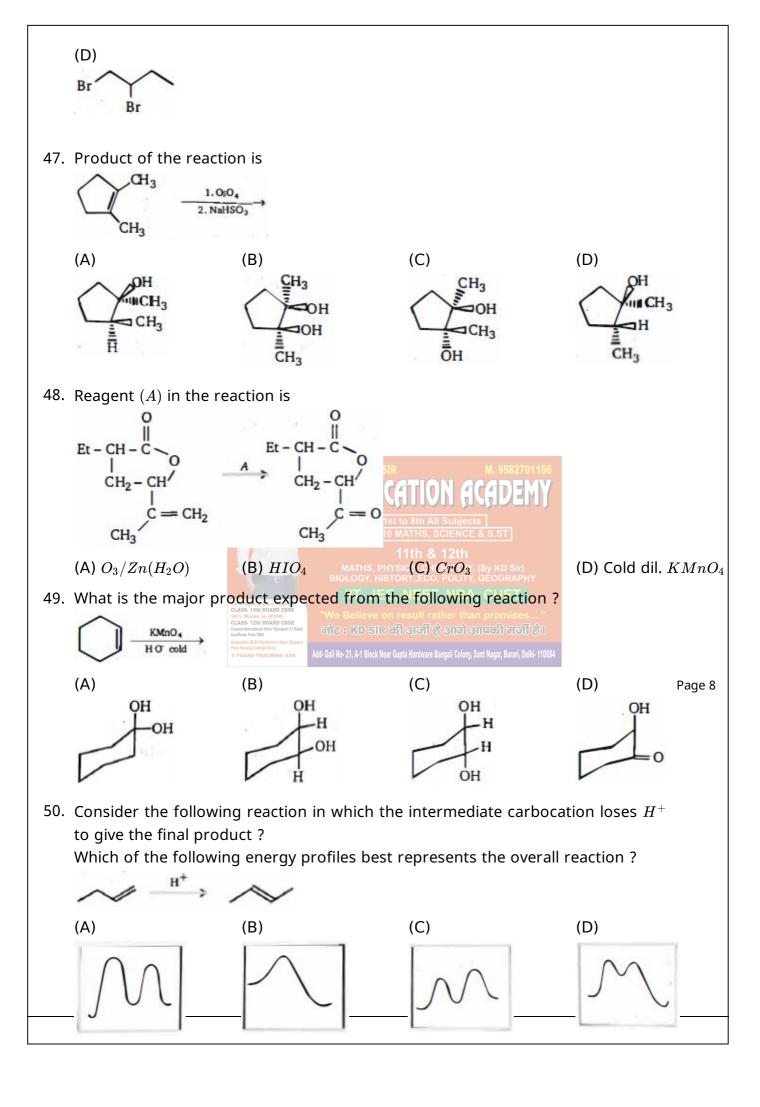
43. Which of the following compound was the starting material for the oxidation

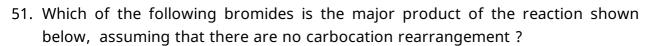


44. Identify (*B*)



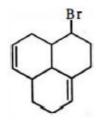
- 45. Addition of  $Br_2$  to cis- 2 -butene would give a product which is
  - (A) achiral
- (B) racemic
- (C) meso
- (D) optically active
- 46. Which compound is a possible product from addition of  $Br_2$  to 1 -butene?
  - $(A) \qquad (B) \qquad (C)$   $Br \qquad Br \qquad Br$



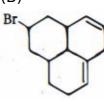


$$+ \underset{(1 \text{ equivalent})}{\text{HBr}} \longrightarrow C_{13}H_{17}Br$$

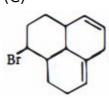
(A)



(B)



(C)



(D)



52. Product (C) of the reaction is



$$\xrightarrow{O_3} A \xrightarrow{H_2/N_i} B \xrightarrow{H^*} \Delta \to (C)$$

(A)



(B)



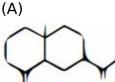
(C)



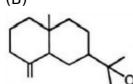


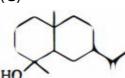
5 YEARS.
(B)

Page 9



53. Reactant (A) can be





(D) All of these

54. Product of the above reaction will be

$$CH_3$$
  $-CH$   $C = C < CH_3$   $\xrightarrow{H_2/Pt}$ 

- (A) Racemic mixture
- (C) Meso

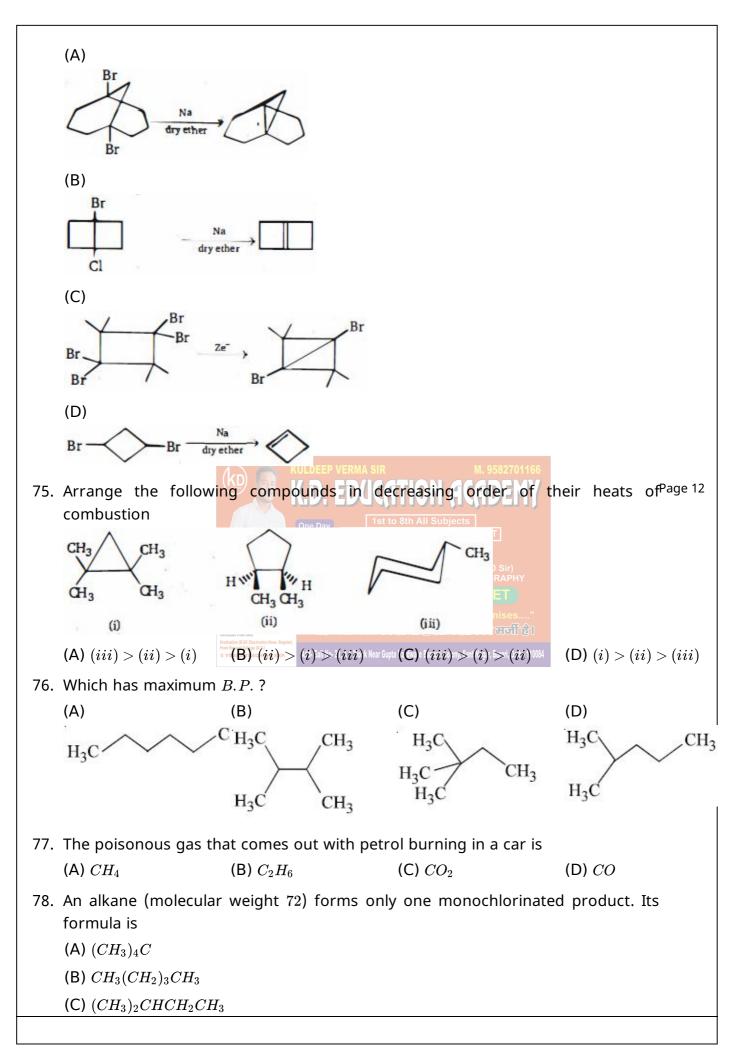
- (B) Diastereomers
- (D) Constitutional isomers
- 55. Double bond equivalent of cubane is

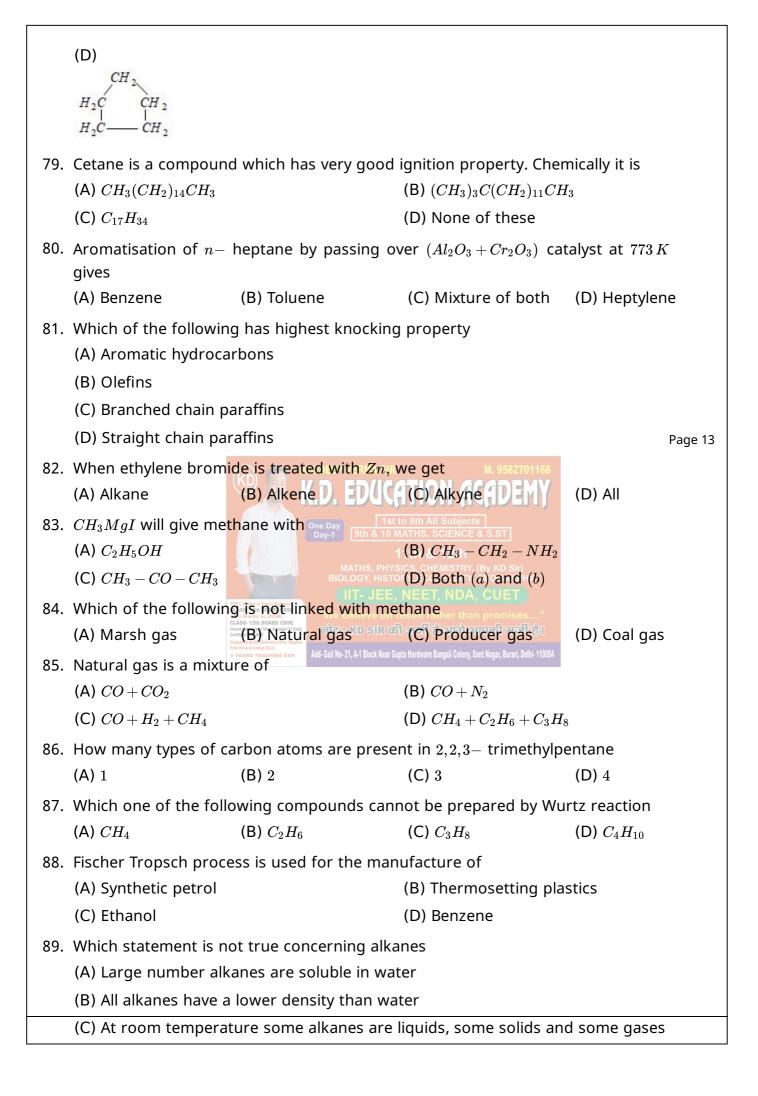


Cubane

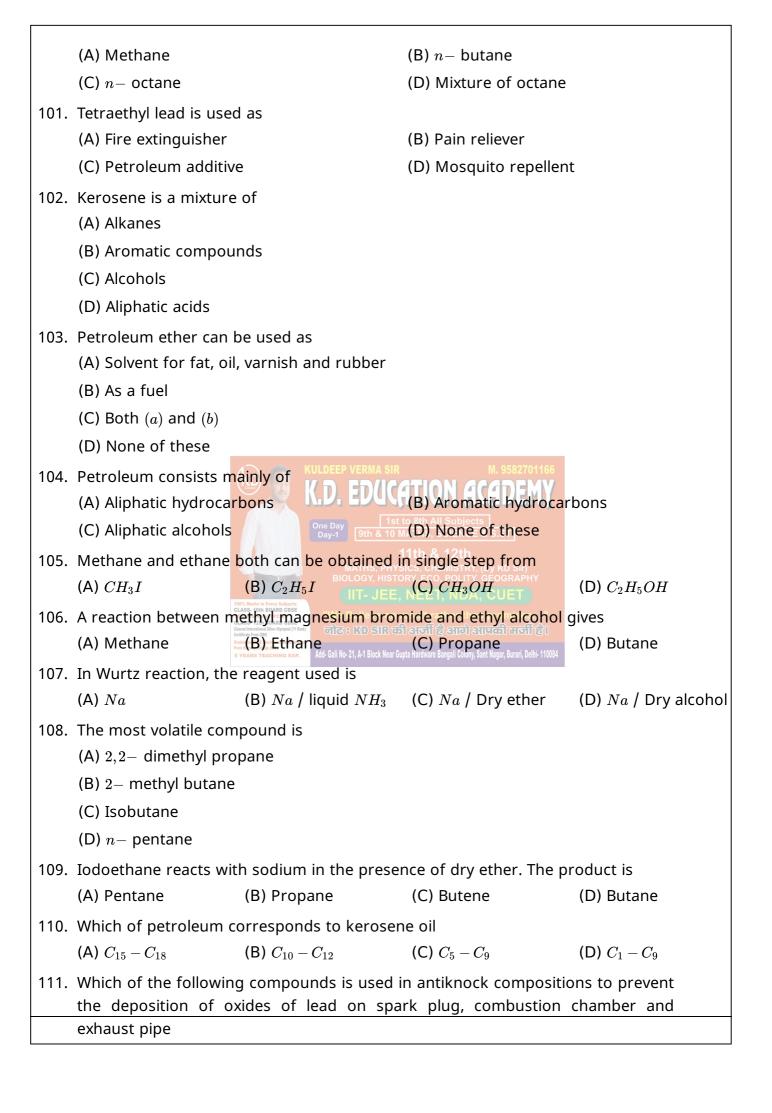
(A) 4	(B) 5	(C) 6	(D) 7
56. $n$ -pentane and iso	pentane can be disting	uished by	
(A) $Br_2$	(B) $O_3$	(C) conc. $H_2SO_4$	(D) $KMnO_4$
57. Which kind of isome	erism will butene $-2$ sho	ow	
(A) Geometrical	(B) Optical	(C) Position	(D) None of these
58. The reaction $CH_3$ 0	$CH = CH_2 {\overset{(CO+H_2)}{\longrightarrow}} CH_3 -$	$-CH-CH_3$ is known $^{\mid}_{COOH}$	as
(A) Wurtz reaction			
(B) Koch reaction			
(C) Clemmensen red	duction		
(D) Kolbe's reaction			
59. Which of the follo	owing aliphatic comp	ounds will discharge	red colour of
(A) $C_2H_4$	(B) $C_3H_6$	(C) $C_4H_8$	(D) All of these
60. Which one of the formobutane $(1) \ CH_3CH = CHCH$ $(2) \ CH_3CH_2CH = CH$	$T_2CH_3 \xrightarrow[Bar]{HBr} O_{ne Day} 0_{pay-1} 0$	d be the best for the for the form of the form of the state of the sta	ormation of 2—
$(3) \ CH_3CH = CHCH$	$Br_2$ MATHS, PH BIOLOGY, HIS		Page 10
$(4) CH_3CH_2CH = CI$	100% Marks in (PCM) 20% Marks in (PCM) 21.435 T2th BOARD CFEE Certifiest Proceeding for Consult of It also Certifiest Proceeding Contacting 18 Consultant in the Consultant in	E, NEET, NDA, CUET n result rather than promises" விகனித்குவிகுக்கிகனிதி	j
(A) 1	SYE(B) Ac2NG EXP. Add- Gali No- 21, A-1 Block Ne.	ar Gupta ( 😡 e 🎖 gali Colony, Sant Nagar, Burari, Delhi- 110084	(D) 4
61. The order of increa be $(1) \ CH_2 = CH_2 \\ (2) \ (CH_3)_2C = CH_2 \\ (3) \ CH_3CH = CHCH \\ (A) \ 1 < 2 < 3$		HCl of the following $d$	compounds will
62. Ethylene is a member	er of series		
(A) Alkyne	(B) Olefin	(C) Paraffin	(D) Amine
63. Ethyl alcohol on hea	iting with conc. $H_2SO_4$	gives	
(A) $CH_3COOC_2H_5$	(B) $C_2H_6$	(C) $C_2H_4$	(D) $C_2H_2$
64. The final product fo	rmed by the ozonolysis	s of compound $RCH = 0$	$CR_2$ is
(A) RCHO	(B) $R_2CO$	(C) Both $(a)$ and $(b)$	(D) None of these
65. 2—chlorobutane is amount is	heated with alcoholic	$\it NaOH$ , the product fo	rmed in larger

	(A) 1-Butene	(B) 1—Butyne	(C) 2-Butene	(D) All of these
66.	Alkene can be pro $R-X+Nu^- o  ext{Alkene}$	•	halide by the follow	wing reagent
	(A) Alc. $KOH$ + heat		(B) Aq. <i>KOH</i> + cold w	ater
	(C) NaOH		(D) $LiOH$	
67.	Bond length between	carbon-carbon in eth	ylene molecule is $\overset{o}{A}$	
	(A) 1.54	(B) 1.35	(C) 1.19	(D) 2.4
68.	Ethylene reacts with o	zone gas to form the	compound	
	(A) HCHO	(B) $C_2H_5OH$	(C)	(D) $CH_3CHO$
			$O < CH_2 - O$ $CH_2 - O$	
69.	Ozonolysis of which o	ne of the following w	ill give two molecules o	f acetaldehyde
	(A) 1-butene	(B) 2-butene	(C) 1–pentene	(D) 2-pentene
70.	Which of the following	g compounds represe	nts acrylonitrile	
	(A) Vinyl cyanide	KULDEEP VERMA SIF	(B) Cyanoethene	
	(C) Prop–2–ene nitril	K.D. EDUC	(D) All of them EMV	
71.	Which of the following	g has hig <mark>hest knockin</mark>	V	
	(A) Olefins	Day-1 9th & 10	(B) Branched chain ol	efins Page 11
	(C) Straight chain ole	MATHS, PHY BIOLOGY, HIST	(D) Aromatic hydrocai	bons
72.		00% Marks in Every Subjects LASS-10th BOARD CBSE BYSM Marks in (PCM) "We Believe on		
	MgCl OH	n (B.SC Electronics Hons. Regular)	भी अन्ति है साथे साम्बर्ध सन्ति है। 	
	$+$ $\rightarrow$ (I	Add- Gali No- 21, A-1 Block Near	Gupta Hardware Bangali Colony, Sant Nagar, Burari, Delhi- 110084	
	$\vee$			
	(A)	(B)	(C)	(D)
	1	$\langle \times \rangle$		$\langle \rangle$
	_	$\vee$ $\vee$		$\checkmark$
73.	$cis-3$ -hexene $\stackrel{(a)}{\longrightarrow}$ me	eso $3{,}4-$ hexanediol		
	$trans-3$ -hexene $\stackrel{(b)}{\longrightarrow}$	meso $3{,}4-$ hexanediol		
	Choose pair of reager			
	(A) Cold $KMnO_4, OsO$	4		
	(B) Cold $KMnO_4,RCC$	$O_3H/H_3O^\oplus$		
	(C) $RCO_3H/H_3O^\oplus$ , col	$d\; KMnO_4$		
	(D) None of these			
74.	Which of the following	g does not represent	major product of that r	eaction ?



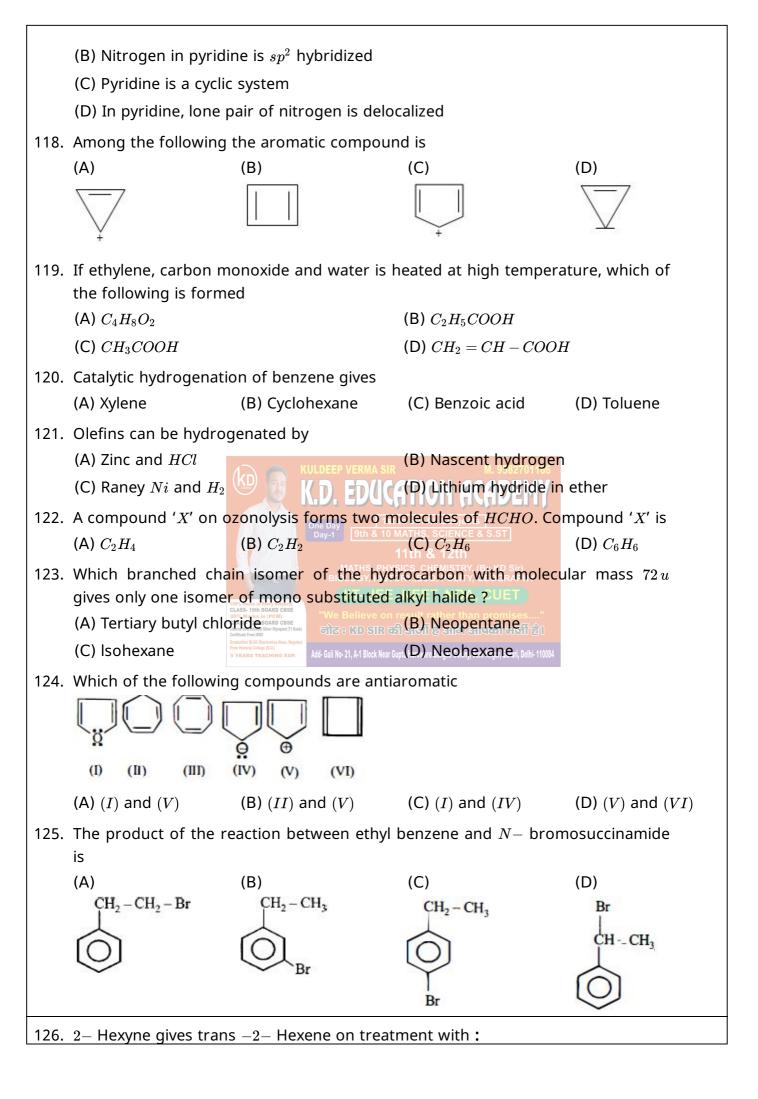


	(D) All alkanes burn			
90.	Formation of alkane (A) Frankland's react	-	n on alkyl halide is called (B) Wurtz reaction	
	(C) Cannizzaro reacti	on	(D) Kolbe's reaction	
91.	Which of the followin	g is not an endotl	hermic reaction	
	(A) Dehydrogenation			
	(B) Ethane to ethene			
	(C) Combustion of pr	opane		
	(D) Change of chloring	ne molecule into c	hlorine atoms.	
92.	A sample of gasoline number will be	e contains 81% iso	o-octane and $19\%$ $n-$ hepta	ne. Its octane
	(A) 19	(B) 81	(C) 100	(D) 62
93.	Water gas is			
	(A) $CO + CO_2$	(B) $CO+N_2$	(C) $CO+H_2$	(D) $CO+N_2+H_2$
94.	Which of the follow	wing does not d	decolourise bromine soluti	on in carbon
	disulphide	(KD) KULDEEP VE	RMA SIR M. 9582701166	
	(A) Acetylene	(B) Propene	DUCA (C) Ethane TDEM	(D) Propyne
95.	Knocking sound occu	<mark>ir</mark> s in eng <mark>ine whe</mark> r	th & 10 MATHS, SCIENCE & S.ST	
	(A) Ignites slowly	MAT	11th & 12th HS, PHYSICS, CHEMISTRY, (By KD Sir)	
	(B) Ignites rapidly		GY, HISTORY, ECO, POLITY, GEOGRAPHY  - JEE, NEET, NDA, CUET	
	(C) Contains water	100% Marks in Every Subjects CLASS-10th BOARD CBSE 95% Marks in (PCM) ULASS-10th BOARD CBSE		
	(D) Is mixed with ma	Graduation (B.SC Electronics Hons. Regular)	D SIR की छन्तीं है छाने छाएकी यन्तीं है।	
96.		ch is used in	1 Block Near Gupta Hardware Bangali Colony, Sant Nagar, Burari, Delhi 110094 making printer's ink, is	obtained by
	decomposition of		(5) 5	
	(A) Acetylene		(B) Benzene	
	(C) Carbon tetrachlor		(D) Methane	
97.	Gasoline is obtained	•	eum oil by its	
	(A) Fractional distillat			
	(B) Vacuum distillatio	on		
	(C) Steam distillation			
	(D) Pyrolysis			
98.	•	-	which catalyst is mostly use	
	(A) $Pt/Ni$	(B) <i>Pd</i>	(C) $SiO_2$	(D) Misch Metal
99.			ock agent in petroleum is	(D) ( a == )
	(A) $(C_2H_5)_4Pb$	(B) TNT	(C) $CH_3MgBr$	(D) $(C_2H_5)_2Hg$
100.	Natural gas contains	mainly		

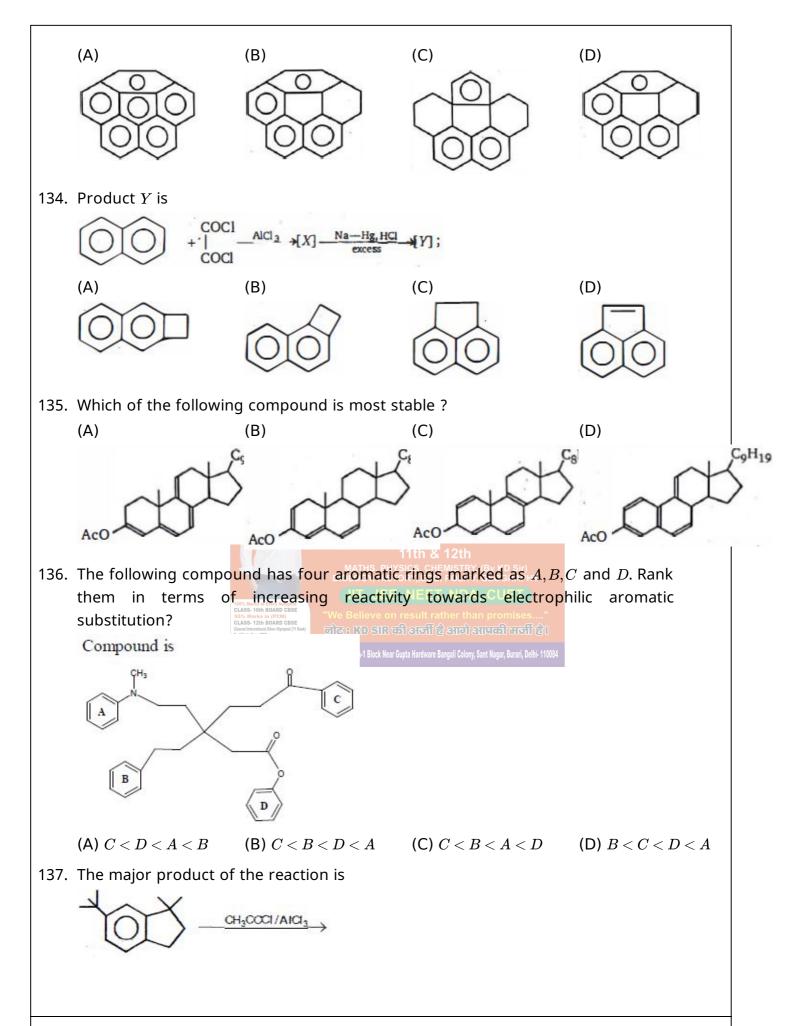


(A) Glycerol (B) Glycol (C) 1,2- dibromoethane (D) Benzene 112. The decreasing order of boiling points is (A) n- Pentane > iso-Pentane > neo-Pentane (B) iso-Pentane > n – Pentane > neo-Pentane (C) neo-Pentane > iso-Pentane > n- Pentane (D) n- Pentane > neo-Pentane > iso-Pentane 113. Cycloalkane has the formula (C)  $C_nH_{2n}$ (A)  $C_n H_{2n+2}$ (B)  $C_n H_{2n-2}$ (D)  $C_{2n}H_2$ 114. The most important method of preparation of hydrocarbons of lower carbon number is (A) Pyrolysis of higher carbon number of hydrocarbons (B) Electrolysis of salts of fatty acids (C) Sabatier and Senderen's reaction (D) Direct synthesis 115. on mercuration and demercuration produces  $CH_2CH = CH_2$ (A) CH,CHOHCH, 100% Marks in Every Subjects CLASS- 10th BOARD CBSE (B) CH2CH2CH2OH (C) CH2CHOHCH2OH (D) none of these 116. Below, some catalysts and corresponding proceses/reactions are matched. The mismatch is (A)  $[RhCl(PPh_3)_2]$ : Hydrogenation (B)  $TiCl_4 + Al(C_2H_5)_3$ : Polymerization (C)  $V_2O_5$ : Haber-Bosch process (D) Nickel-Hydrogenation 117. Pyridine is less basic than triethylamine because

(A) Pyridine has aromatic character



	(A) $Pt/H_2$	(B) $Li/NH_3$	(C) $Pd/BaSO_4$	(D) LiAlH <sub>4</sub>
127.	,	anic compound gives f sence of : ble bonds	formaldehyde as one o	f the products.
128.	having a molecular m	ass of $44u$ . The alkene		•
129.	<ul> <li>(A) propene</li> <li>The reaction of toluer</li> <li>(A) m-chlorobenzene</li> <li>(C) benzyl chloride</li> </ul>	·	(C) $2-$ butene e of $FeCl_3$ gives predon (B) benzoyl chloride (D) $o-$ and $p-$ chlorot	·
130.	Of the five isomeric compounds is  (A) $n$ -hexane  (B) $2,3$ -dimethylbuta  (C) $2,2$ -dimethylbuta  (D) $2$ -methylpentane	KULDEEP VERMA SIR K.D. EDUC  One Day Day-1  9th & 10	M. 9582701166  TION ACADEMY  to 8th All Subjects MATHS, SCIENCE & S.ST  11th & 12th	onochlorinated
	mainly  (A) 1-bromo-2-met  (B) 2-bromo-2-met  (C) 2-bromo-3-met  (D) 1-bromo-3-met	with bromin  IIT- JEE  100.5 Marks in Every Subjects 100.5 Marks i	er incethe presence of , NEET, NDA, CUET result rather than promises" ठी डार्जी है आगे आपकी सर्जी है। Supta Hardware Bangali Colony, Sant Nagar, Burari, Delhi-110084	sunlight gives
132.	Which of these does r (A) 2-butene	not follow Anti-Markov (B) 1—butene	vnikoff's rule (C) 2–pentene	(D) 2–hexene
133.	The step shown below Product $(A)$ is	v is a recent synthesis $Pd/C \rightarrow (A) C_{20}H_{10}$ $Corannulene$	of corannulene.	



(A) (B) (C) (D) 
$$CH_3 - C$$

$$CH_4 - C$$

$$CH_5 - C$$

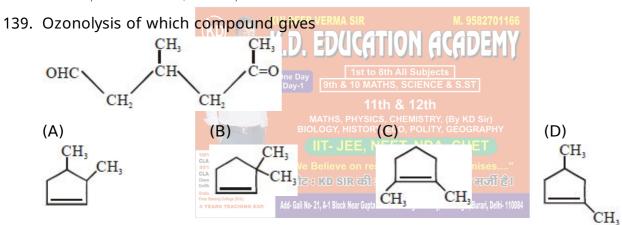
$$CH_5 - C$$

$$CH_7 - C$$

$$CH_7$$

138. To carry out above conversion reagent used in decreasing order.

- (A)  $Na/liq.NH_3, CHBr_3/NaOH(\Delta)$
- (B)  $H_2/Pd CaCO_3, CHBr_3/NaOH(\Delta)$
- (C)  $Na/liq.NH_3, CHCl_3/NaOH$
- (D)  $H_2/Pd-CaCO_3,CHCl_3/NaOH$



140. The product of following reaction will be

$$(A) \longrightarrow \text{Product}$$

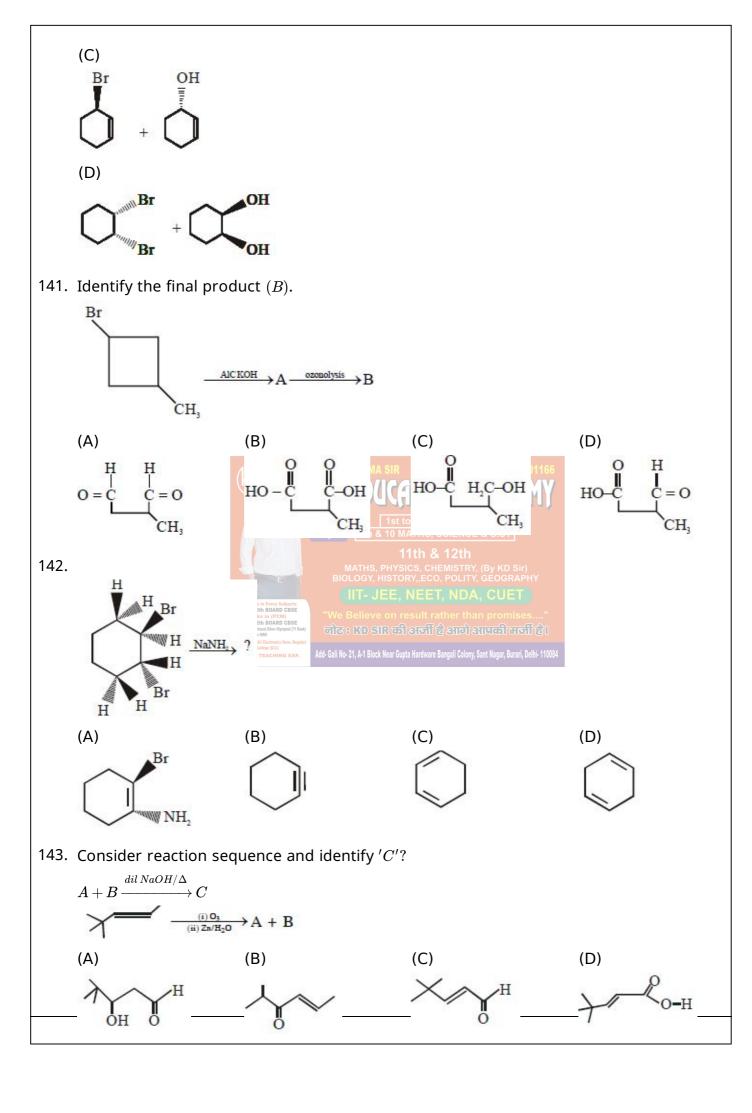
$$(A) \longrightarrow \text{Br}$$

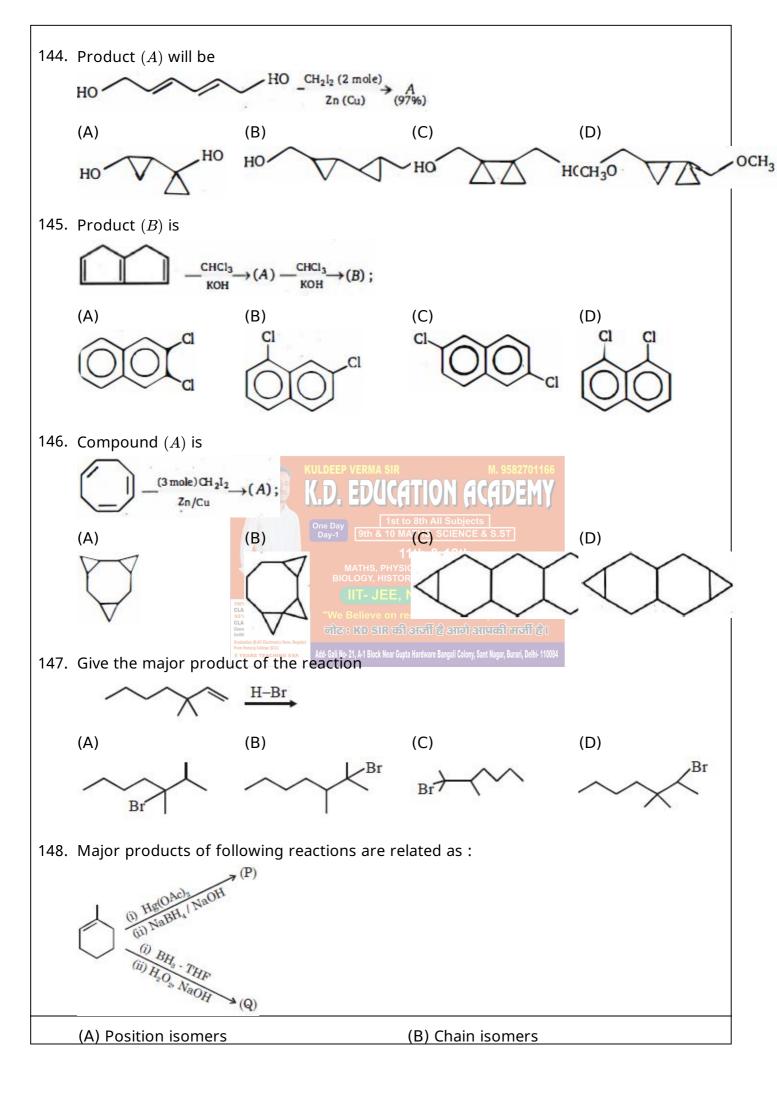
$$OH \longrightarrow OH$$

$$(B) \longrightarrow \text{Br}$$

$$+ \longrightarrow OH$$

$$Br \longrightarrow OH$$

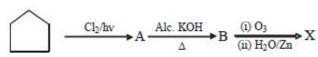




(C) Functional isomers

(D) Identical

149. X is -



(A)  $CHO - (CH_2)_3 - CHO$ 

(B)  $CHO - (CH_2)_2 - CHO$ 

(C)  $CHO - (CH_2)_3 - CH_3$ 

- (D) CHO CHO
- 150. Match the column and find correct answer

Column $-I$	Column <i>–II</i>
(i) $n-$ Butane $ ightarrow 2-$ methyl propane	(A) Free redical substitution
$(ii) \ CH_4 + Cl_2 \stackrel{hv}{\longrightarrow} CH_3 + Cl$	(B) Wurtz reaction
$(iii)  R-COONa \xrightarrow{soda-\lim e} R-H$	(C) Isomerism
$(iv)  R - X + Na \stackrel{\mathrm Ether}{$	( <i>D</i> ) De-carboxylation

(A) 
$$I - C$$
,  $II - A$ ,  $III - D$ ,  $IV - B$ 

(B) 
$$I-A$$
,  $II-C$ ,  $III-D$ ,  $IV-B$ 

(C) 
$$I-C$$
,  $II-A$ ,  $III-B$ ,  $IV-D$ 

(D) 
$$I - B$$
,  $II - A$ ,  $III - D$ ,  $IV - C$ 

---- Being the richest man in the cemetery doesn't matter to me. Going to bed at night saying we've done something wonderful . . . that's what matters to me. -----

100% Marks in Every Subjects CLASS- 10th BOARD CBSE 95% Marks in (PCM) CLASS- 12th BOARD CBSE Cleared International Silver Olympiad (†1 Certificate From ISRO 9th & 10 MATHS, SCIENCE & S.ST

11th & 12th

MATHS, PHYSICS, CHEMISTRY, (By KD Sir)
BIOLOGY, HISTORY,,ECO, POLITY, GEOGRAPH

IIT- JEE, NEET, NDA, CUET

"We Believe on result rather than promises...." অভিঃ KD SIR হঠি হার্টী ই হার্টী হার্টী হার্টী হার্টী

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