PRACTICAL ORGANIC CHEMISTRY











	(a) O OCH_3 (b) OCH_3 (b) OCH_3	(c) $\begin{pmatrix} 0 \end{pmatrix} \begin{pmatrix} 0 \\ - \end{pmatrix} \begin{pmatrix} 0 $
11.	Give a simple test to differentiate cyclohexar (a) Br_2/H_2O	ne and cyclohexene (b) Bayer's reagent
	(c) Tollen's reagent	(d) Both (a) and (b)
12.	Give test to differentiate (Bromobenzene) Pl	n – Br and benzyl bromide (PhCH ₂ Br).
	(a) (i) aq. KOH (ii) Na	(b) AgNO ₃
	(c) $KMnO_4$	(d) All these
13.	Give test to differetiate 1,1-dichloroethane a	
	(a) 2,4 -DNP then aq. KOH	(b) aq. KOH then 2, 4-DNP
	(c) NaHSO ₃	(d) Lucas reagent
14.	Test to differentiate between (CH ₃ OH) and ((methanol)	Ph – OH) is/are : (Phenol)
	(a) Litmus test	(b) FeCl ₃
	(c) Br_2/H_2O	(d) All of these
15.	Acetaldehyde and benzaldehyde can be diffe	rentiated by :
	(a) Fehling test	(b) Iodoform test
	(c) Tollen's reagent	(d) both (a) and (b)
16.	Ethylamine and diethylamine cannot be diffe	
	(a) Hinsberg test	(b) carbylamine test
8 <u>4</u> -9 <u>7</u> -94	(c) Iodoform test	(d) both (a) and (b)
17.	Lassaigne's test for the detection of nitrogen	
	(a) NH_2CONH_2	(b) $NH_2CONHNH_2.HCl$

(a) NH_2CONH_2 (c) $NH_2NH_2.HCl$ (d) $C_6H_5NHNH_2$. 2HCl

18.	Sodium nitroprusside colouration which is :		to an alk	aline solution	of sulphide	ions produces a
	<pre>// 1</pre>	a > 1 1				

	(a) red	(b) blue	(c) brown	(d) purple
19.	In Kjeldahl's method,	nitrogen present is esti	mated as :	
	(a) N ₂	(b) NH ₃	(c) NO ₂	(d) none of these
20.	In Kjeldahl's method o	of estimation of nitroge	n, K ₂ SO ₄ acts as :	
	(a) an oxidising agen	t	(b) catalytic agent	
	(c) hydrolysing agent		(d) boiling point elev	ator
21.	The prussian blue colo formation of :	our obtained during the	test of nitrogen by Lass	saigne's test is due to the
	(a) $Fe[Fe(CN)_6]_3$		(b) $Na_3[Fe(CN)_6]$	
	(c) $Fe(CN)_3$		(d) Na_4 [Fe(CN) ₅ NOS	5]
22.	A compound which do	pes not give a positive t	est in Lassaigne's test i	for nitrogen is:
	(a) urea	(b) hydrazine	(c) azobenzene	(d) phenyl hydrazine
23.	<i>p</i> -nitrophenol and <i>o</i> -n	itrophenol are separate	ed by :	
	(a) distillation		(b) steam distillation	
	(c) crystallization		(d) fractional crystall	ization
24.	Which of the follow acetophenone?	ving reagent is used	for the separation	of acetaldehyde from
	(a) NH ₂ OH	(b) NaOI	(c) Tollen's reagent	(d) $C_6H_5NHNH_2$
25.	The formula of gas is	$[CO]_x$. If its vapour den	nsity is 70, the value of	f <i>x</i> will be :
	(a) 2.5	(b) 3.0	(c) 5.0	(d) 6.0
26.	The structure of the mechanism is :	monomer that would	give the following p	olymer by an addition
		CO ₂ Me	CO ₂ Me	
		₹ CO ₂ Me	h	

	(a) urea	(b) hydrazine	(c) azobenzene	(d) phenyl hydrazine							
23.	<i>p</i> -nitrophenol and <i>o</i> -n	itrophenol are separate	ed by :								
	(a) distillation		(b) steam distillation								
	(c) crystallization		(d) fractional crystall	ization							
24.	Which of the follow acetophenone?	wing reagent is used	for the separation	of acetaldehyde from							
	(a) NH ₂ OH	(b) NaOI	(c) Tollen's reagent	(d) $C_6H_5NHNH_2$							
25.	The formula of gas is	$[CO]_x$. If its vapour det	nsity is 70, the value o	f x will be :							
	(a) 2.5	(b) 3.0	(c) 5.0	(d) 6.0							
26.	The structure of the mechanism is :	monomer that would	give the following p	olymer by an addition							
	CO_2Me CO_2Me										
	Y Y Y Y Y										



Identify the correct set of stereochemical relationships amongst the following 27. monosaccharides I – IV



- (a) I and II are anomers ; III and IV are epimers
- (b) I and II are epimers ; III and IV are anomers
- (c) I and III are anomers ; I and II are epimers
- (d) I and III are epimers ; II and IV are anomers
- **28.** A dye, phenolphtnalein is prepared by reacting phenol with phthalic anhydride in acidic medium. It give pink colour in alkaline medium due to extended conjugation in a new complex formed (phthalein dye test) identify the complex *A* :







(d) None

ANSWERS — LEVEL 1															
1.	(d)	2.	(d)	3.	(c)	4.	(b)	5.	(b)	6.	(c)	7.	(a)	8.	(d)
9. 17.	(d)	10.	(c)	11.	(d)	12.	(d)	13.	(b)	14.	(d)	15.	(d)	16.	(c)
17.	(c)	18.	(b)	19.	(b)	20.	(d)	21.	(d)	22.	(b)	23.	(a)	24.	(c)
25.															01 KA



1. Comprehension



Ξ

		~	Т ОСН ₃	Т СН ₃	$\int O - CH = CH_2$	Т О−Н	ОH	
		(a)	(b)	(c)	(d)	(e)	(f)	
.	A. =	Which ison	ner gives pos	itive iodoform	n test ?	<u> </u>		
		(a) a			(b) b			
		(c) d			(d) e			
	B.	Which ison	ner gives +iv	e Tollen's tes	t, also reacts with FeO	21 ₃ ?		
		(a) b	35 -2 7.0		(b) f			
		(c) c			(d) d			
	C.	Which ison	ner reacts wi	th NaHCO ₃ ?				
		(a) c			(b) d			
		(c) e			(d) f			
8 8	D.	Which ison	ner on hydro	lysis gives 1,	4-di hydroxybenzene	?		
		(a) a			(b) d			
		(c) e			(d) f			
		0						
	9	Dh C	OH NaHCo	$D_3 \times (A)$ cas	; $Ph - OH \xrightarrow{Na}$ (R) gas		
	2.					DJgas		
		Sum of mo	lecular mass	of gas $(A+B)$	=?)			

ANSWERS — LEVEL 2

- **1.** A − d; B − b; C − a; D − b
- **2.** 48