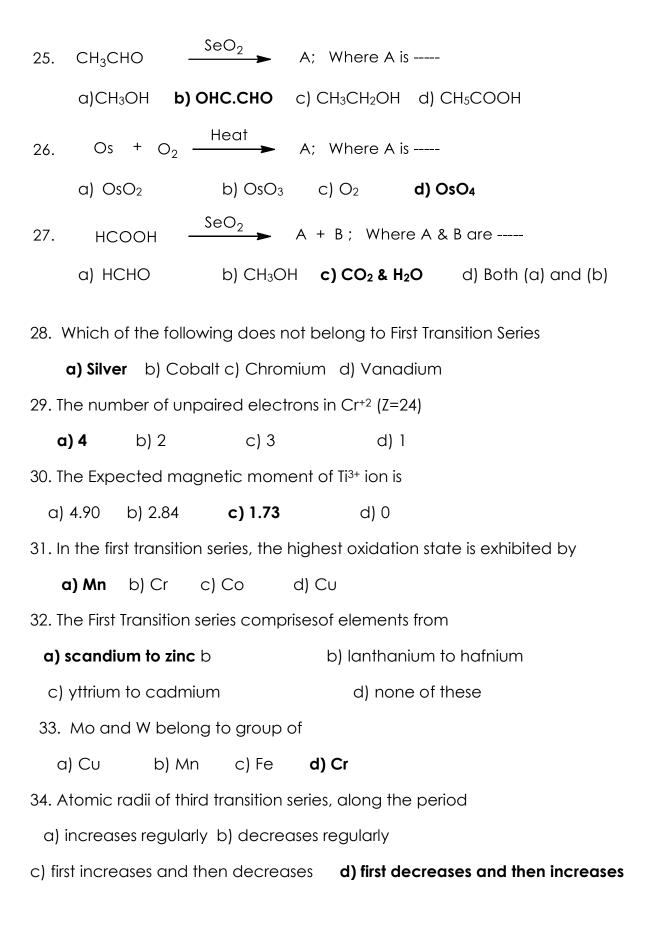
5.	A compound with two or more asymmetric carbon atoms and having										
	plane of symmetry is called										
	a) Meso compound			b) Tautomeric compound							
	c) Racemic mixture d) Diasto					istere	omeric	comp	ound	ł	
6.	How many optical isomers are possible for 2-butanol?										
	a) 2		b)	4		c)	6		d)	8	
7.	Optical isomers that are mirror images of each other are called as										
	a) Distereoisomers			b) Enantiomers							
	c) Metamers d)				d) Tautomers						
8.	An equimolar mixture of two enantiomers is called										
	•			b) diastereomeric compounds							
	c) Racemic mixture c) Resolution										
9.	Which of the following is an ex			ample of monosaccharides?							
	a) Sucrose b) Raffinose		e c) Starch			d) Glucose					
10.	Which of the following is an example of polysaccharides?										
	a) Sucrose b) Raffinose		e c) Starch			d) Glucose					
11.	Glucose contains										
	a) an aldehyde group			b) a ketonic group							
	c) six hydroxyl group			d) a cyanide group							
12.	Sucrose is an example of										
	a) monosaccharides			b) disaccharides							
	c) trisaccharides			d) polysaccharides							
13.	Which of the following conversion is an example of Ruff degradation?										
	a) Glucose to Arabinose			b) Arabinose to glucose							
	c) Glucose	to fructos	e	d) Fru	ictose t	to Gli	ucose				
14.	Glucose contains asymmetric (Chiral) carbons.										

	a) Two	b) Four	•	c) Six	d) E	ight		
15.	Conversion of glucose into mannose is an example of							
	a) Mutaroto	ation k	o) Epimeriso	ation				
	c) Hydrolysi	s c	d) Fermento	ation				
16.	Reduction of nitrobenzene with H ₂ /Ni gives							
	a) Benzene	k	o) Phenol		c) Aniline		d) Toluene	
17.	Phenol react with ammonia in presence of AlCl ₃ gives							
	a) Chlorobe	enzene k	o) Aniline		c) Benzer	ie	d) Anisole	
18.	Aniline react with chloroform and alco. KOH gives							
	a) Benzene	b) Phe	nol	c) Tolu	jene	d) C	arbylamine	
19.	Diazomethane on heated to give							
	a) Carboco	ation t	o) Carbene		c) Nitrene	d) (Carbanion	
20.	Commercially urea is prepared from							
	a) CO & NH ₃		b) CH ₃ COOH & NH ₃					
	c) CO ₂ & N	H ₃	d) HCHO &	NH ₃				
21.	Urea is the most important derivative of							
	a) carbolic	acid b) ca	rbonic acio	I c) c	arboxylic	acid	d) phenol	
22.	Urea is called as							
	a) carbolic	acid k	o) carboxyl	ic acid				
	c) carbami	de o	d) None of	these				
23.	Biuret is obtained by heating							
	a) Benzene	diazonium sal	t b) Ar	iline	c) Urea	d) Nitro	benzene	
24.	Maleic acid on cis hydroxylation using OsO4 gives							
	a) Glycol	b) Tartaric ac	id c) Gly	cerald	ehydes	d) Etha	nol	



35. Which o	f the followir	ng does not b	elong to lar	nthanides			
a) Nd	a) Nd b) Tm		d) (Ce			
36. The principal oxidation state of lanthanides is							
a)+2	a)+2 b)+3		4	d) zero			
37. Which	anthanide h	as the configu	uration 4f ⁷ 5	d¹ 6s²			
a) Sm	b) Gd	c) Eu d)	Tb				
38. Which of the following has smallest ionic size							
a) La ³⁺	b) Cd ³⁺	c) Dy ³⁺	d) Lu ³⁺				
39. Which o	f the followir	ng trivalent lar	nthanide ior	ns is not coloured			
a) Er ³⁺	b) Yb ³⁺	c) Pm ³⁺	d) Sm	3+			
40. The Sep	aration of la	nthanides in id	on-exchang	ge method is based on			
a) basicit	y of lanthan	ides	b) oxidation state of the ion				
c) solubil	ity of their ni	trates	d) size of the ions				