# 369 PU M Sc Chemical Sciences

219 Whi	F 100 PU_2016_369_E ch of the following electrical interaction forces is called London force or Dispersion force?
0	Dipole-induce dipole interaction
0	Induced- dipole induced-dipole interaction
	Ion-Dipole interaction
0	Hydrogen bonding interaction
121 Bon O O	F 100 PU_2016_369_E d order in $O_2^{2^-}$ is:-  3  4  1
133 Calc	F 100 PU_2016_369_E culate crystal field stabilization energy of a low spin d <sup>6</sup> octahedral complex.
174 An o	PU_2016_369_E organic compound showed two bands of almost equal intensity between 3300-3500 cm <sup>-1</sup> in its IR otrum. The compound is:-  Hexanoic acid  N-methylaniline  1-butanamine  N,N-dimethylformamide
216	F 100 PU_2016_369_E ch of the following inorganic compound will exhibit magnetic moment?  BaTiO <sub>3</sub> CuO  MgAl <sub>2</sub> O <sub>3</sub>

<sup>™</sup> ZnSiO <sub>4</sub>
6 of 100 112 PU_2016_369_E Out of XeF <sub>2</sub> , CO <sub>2</sub> , SO <sub>2</sub> and NO <sub>2</sub> the linear species are:-
XeF <sub>2</sub> and CO <sub>2</sub>
SO <sub>2</sub> and NO <sub>2</sub>
CO <sub>2</sub> and SO <sub>2</sub>
XeF <sub>2</sub> and NO <sub>2</sub>
7 of 100 109 PU_2016_369_E The oxidation number and valency of P in phosphorus acid is:-  +3, +3  +5, +3
° +3, +5
+5, +5
8 of 100 132 PU_2016_369_E What is the oxidation state of Cr in [CrF <sub>6</sub> ] <sup>3-</sup> ?
C +6
C <sub>+2</sub>
C _3
° +3
9 of 100 170 PU_2016_369_E The major product formed in the reaction of 1-octene with NBS and dibenzoyl peroxide (cat.) is:-
1,2-dibromooctane
E-1-bromo-2-octene
Z-1-bromo-2-octene
3-bromo-1-octene
10 of 100 120 PU_2016_369_E Oxide ion forms close packed cubic structure in MgAl <sub>2</sub> O <sub>4</sub> . How many octahedral holes and tetrahedral holes are present in per unit formula?
4 each
1 and 2

0	2 each
0	4 and 8
200 Whi	of 100 PU_2016_369_E ich of the thermodynamic parameter remains constant during phase transition from solid to liquid? Enthalpy Volume Temperature
0	Entropy
205	PU_2016_369_E ne case of real gas which of the following thermodynamic parameter is used instead of pressure?  Partial pressure  Equilibrium pressure  Fugacity  None of the above
166	of 100 PU_2016_369_E ich among following compounds can be resolved into optically active isomers at room temperature?
B. <i>t</i> .	cis-1,2-dimethylcyclohexane rans-cyclooctene -Butylsulfinamide.
0	A and C
0	A and B A, B and C B and C
113	of 100 PU_2016_369_E ich is true for complexes $[Fe(CN)_6]^{4-}$ and $[Co(NH_3)_6]^{3+}$ :-
0	
0	both are low spin complexes
0	former is low spin and latter is high spin both are high spin complexes
108	of 100 PU_2016_369_E secondary valency number of copper in [Cu(NH <sub>3</sub> ) <sub>4</sub> ]Cl <sub>2</sub> complex is:-

° 6
° 4
16 of 100  142 PU_2016_369_E  Which one of the following alkyl bromides soluble in water?  Bromocycloheptane  5-Bromocyclohepta-1,3-diene  3-Bromocyclohept-1-ene  7-Bromocyclohepta-1,3,5-triene
17 of 100 150 PU_2016_369_E What would be the specific rotation of 400 mg of testosterone in 10 mL of ethanol placed in a sample tube of 100 mm long? The observed rotation of this sample at 25°C using sodium D line is +4.36°.  +10.9° +1.09° +109° +54.5°
18 of 100  189 PU_2016_369_E The rotational symmetry number in CH <sub>4</sub> molecule is:-  4  8  6  12
19 of 100  116 PU_2016_369_E The number of states belongs to atomic term symbol 'D is:-  5  7  3  1
<b>20 of 100</b> 145 PU_2016_369_E

Idei	ntify the molecule which exhibits IR stretching vibration at 3100 cm <sup>-1</sup> .
0	Oct-1-ene
000	(E)-Oct-4-ene
	Oct-4-yne
	Oct-1-yne
192	of 100 PU_2016_369_E inequality of Clausius discusses about:-
0	enthalpy
0	heat capacity
0	Gibbs energy
105 In a	of 100 PU_2016_369_E In acid-base titration, the end point is noticed at pH=8.6; The best indicator for this titration is:-
0	Phenolphthalein
0	methyl red
0	bromothymol blue
182	of 100 PU_2016_369_E ich one of the following pairs is <i>isostructural</i> ?
0	NF <sub>3</sub> and BF <sub>3</sub> ]
0	[NH <sub>3</sub> and NO <sub>2</sub> -]
0	[BCl <sub>3</sub> and BrCl <sub>3</sub> ]
	[BF <sub>4</sub> and NH <sub>4</sub> ]
125 Tris	of 100 PU_2016_369_E ilylamine is planar, whereas trimethylamine is pyramidal due to the presence of the following bonding isilylamine:-
0	pπ-pπ bonding
0	four-centered two-electron bonding
0	$d\pi$ - $d\pi$ bonding
0	pπ-dπ bonding

	PU_2016_369_E amount of NaOH needed to prepare 1.5 M sodium hydroxide solution in 100 mL is:-
0	15 g
0	6 g
0	10 g
0	60 g
	of 100
	PU_2016_369_E number of EPR lines you get for a hydrogen radical is:-
$\circ$	3
$\circ$	2
$\circ$	4
0	1
	of 100
	PU_2016_369_E e slope obtained from the Arrhenius plot:-
$\circ$	- Ea/R
$\circ$	Ea/R
0	Ea/RT
0	constant A
28	of 100
	PU_2016_369_E SI unit of ionic mobility for ions in solution is given by:-
0	metre/sec
$\circ$	Coulomb/Volt
$\circ$	Coulomb-metre/sec
$\circ$	Coulomb-sec/Kg
29	of 100
The	PU_2016_369_E absorption band corresponding to the transition of an electron from n=2 to n=3 level having the 19th of the box 578 pm:-
0	6.54*10 <sup>4</sup> cm <sup>-1</sup>
0	3.54*10 <sup>4</sup> cm <sup>-1</sup>
O	4.54*10 <sup>4</sup> cm <sup>-1</sup>
0	5.54*10 <sup>4</sup> cm <sup>-1</sup>
	U.U U

154 PU\_2016\_369\_E

Which one of the following compound shows stretching vibration at 1850 cm<sup>-1</sup> in FT-IR?

- Cyclopropanone
- Ethyl acetate
- Cyclopentanone
- Acetone

#### 31 of 100

162 PU\_2016\_369\_E

Structural elements present in the following drug molecule are:-

- A. Urea
- B. Guanidine
- C. Thiazole
- D. Thiophene
- A and C
- A and B
- B and D
- B and C

### 32 of 100

157 PU\_2016\_369\_E

Which one among the following is strong base?

- Imidazole
- Aniline
- Pyridine
- Piperidine

### 33 of 100

149 PU\_2016\_369\_E

Find out the correct IUPAC name for the molecule:-

- (Z)-Ethyl-8-hydroxynon-2-enal
- (E)-Ethyl-8-hydroxynon-2-enal

U	(Z)-9-Oxo-6-ethylnon-2-en-7-ol
0	(E)-9-Oxo-6-ethylnon-2-en-7-ol
218	of 100 3 PU_2016_369_E nich of the following range of energies is the normal range for Hydrogen-bonding in molecules?
0	39 kcals/mole to 51 kcals/mole
0	3 kcals/mole to 15 kcals/mole
0	15 kcals/mole to 27 kcals/mole
0	27 kcals/mole to 39 kcals/mole
146	of 100 6 PU_2016_369_E action of p-cresol with 2-methylpropene in presence of phosphoric acid gives:- 2,6-Diisobutyl-4-methylphenol
0	2-Isobutyl-4-methylphenol
0	2-tert-butyl-4-methylphenol
0	2,6-Di-tert-butyl-4-methylphenol
124 The carl esti	of 100 4 PU_2016_369_E e β-activity of 1 g of carbon from the wood of a recently felled tree is 0.26Bq. If the activity of 1 g of bon isolated from the wood of an Egyptian mummy case is 0.16 Bq under the same conditions, imate the age of the mummy case. ( $^{14}$ C: $t_{1/2}$ = 5730 yr.)
0	3526 yr
0	5730 yr
0	2005 yr
O	4010 yr
158 Wh	of 100 3 PU_2016_369_E
0	by genetic information is not stored in RNA?
0	ny genetic information is not stored in RNA?
	Because RNA is bigger than DNA
	Because RNA is bigger than DNA  Because RNA has base pair
0 0 0 38 128	Because RNA is bigger than DNA  Because RNA has base pair  Because RNA is highly stable

O	square planar geometry
0	rhombic planar geometry
0	tetrahedral geometry
181 In a	of 100 PU_2016_369_E Illene ( $C_3H_4$ ), the type(s) of hybridization of the carbon atoms is (are):- only sp <sup>2</sup> sp and sp <sup>3</sup> sp <sup>2</sup> and sp <sup>3</sup> sp and sp <sup>2</sup>
100	of 100 PU_2016_369_E system has a = 13.2 Å, b = 13.2 Å, c = 15.2 Å and $\infty$ = $\beta$ = $\gamma$ = 90 belongs tostriclinic monoclinic tetragonal orthorhombic
169 A hy	PU_2016_369_E ydrocarbon of molecular formula C <sub>7</sub> H <sub>12</sub> on oxidation with OsO <sub>4</sub> followed by reaction with NaIO yided a keto aldehyde. The compound is:-  4-methylcyclohex-1-ene  3-methylcyclohex-1-ene  1-methylcyclohex-1-ene  1,2-dimethylcyclopent-1-ene
104 A so O O	of 100 PU_2016_369_E colution with pH= 4 is more acidic than a solution of pH = 7 by a factor of:-  1000 +3 +4 -3
178	of 100 PU_2016_369_E acture of naturally occurring dipeptide ala-glu is:-

161 PU\_2016\_369\_E

Which among of the following statements for F<sub>2</sub>C=CF<sub>2</sub> is true:-

- .  $F_2C=CF_2$  is used for manufacture of Teflon
- B. Dipole moment for  $F_2C=CF_2$  is zero
- C. F2C=CF2 is solid at room temperature (30°C)
- D. carbon in F<sub>2</sub>C=CF<sub>2</sub> is sp2 hybridized

B and C

ີ A and D

A, C and D

A, B and D

#### 45 of 100

193 PU\_2016\_369\_E

The entropy change for an isothermal expansion of ideal gas is given as:-

 $^{\circ}$  nR ln(P<sub>2</sub>/P<sub>1</sub>)

ີ (

 $^{\circ}$  nR In(V<sub>2</sub>/V<sub>1</sub>)

nR In(T<sub>2</sub>/T<sub>1</sub>)

#### 46 of 100

212 PU\_2016\_369\_E

In the case of viscosity of a liquid, which of the following statement is true?

- Viscosity decreases with increasing temperatures,
- First increases and then decreases

0	Viscosity remains constant with increasing temperatures, Viscosity increases with increasing temperatures,	
165	of 100 PU_2016_369_E ect statement(s) for imidazole are:-	
B. If C. If D. If	is a weak acid is a weak base is a heterocycle with one nitrogen is a heterocycle with two nitrogen atoms B and C	
000	A and D A and C B and D	
177	of 100 PU_2016_369_E omatic / antiaromatic among the following hydrcarbons are	
		//
	A B C	_
0000	A B C  A and B are antiaromatic, C is aromatic  A is aromatic, B and C are antiaromatic  A and C are antiaromatic, B is aromatic  A is antiaromatic, B and C are aromatic	
0 0 49 129 Zeo	A and B are antiaromatic, C is aromatic A is aromatic, B and C are antiaromatic A and C are antiaromatic, B is aromatic A is antiaromatic, B and C are aromatic of 100 PU_2016_369_E ites are:-	
0 0 0 49 129	A and B are antiaromatic, C is aromatic A is aromatic, B and C are antiaromatic A and C are antiaromatic, B is aromatic A is antiaromatic, B and C are aromatic of 100 PU_2016_369_E ites are:- silicones 3D silicates	
0 0 129 Zeo 0	A and B are antiaromatic, C is aromatic A is aromatic, B and C are antiaromatic A and C are antiaromatic, B is aromatic A is antiaromatic, B and C are aromatic of 100 PU_2016_369_E ites are:- silicones	

C	Cytosine
- 0	Adenine
2	Wave nature of light  Particle nature of light
1	300 pm 343 pm
1	trans-[Co(NH <sub>3</sub> ) <sub>4</sub> Cl <sub>2</sub> ]Cl cis-[Co(NH <sub>3</sub> ) <sub>4</sub> Cl <sub>2</sub> ]Cl trans-[Co(en) <sub>2</sub> Cl <sub>2</sub> ]Cl
1	charge on the ligand size of the ligand
2	5 of 100 13 PU_2016_369_E /hich of the following is an insulator? Si C (Diamond)

0	Ge
	None of the above
173	of 100 PU_2016_369_E correct reagents / reactants and their sequence of use in the synthesis of local anaesthetic procaine
Н	2N (Procaine)
0	(i) ethyleneoxide (ii) diethylaniline (iii) 4-aminobenzoic acid
$\circ$	(i) diethylamine (ii) epichlorohydrin (iii) 4-aminobenzoic acid
$\circ$	(i) 4-aminobenzoic acid (ii) ethylene oxide (iii) diethylamine
$\circ$	(i) diethylamine (ii) ethylene oxide (iii) 4-aminobenzoic acid
197 The	of 100 PU_2016_369_E linear Gibbs energy relationship (to study the substituent and correlation effects) for Aliphatic apounds was well shown by:-
0	Hammett
0	Debye-Onsager
0	Taft
0	Gibbs-Helmholtz
201	of 100 PU_2016_369_E not cycle in Temperature and Entropy axes is represented as:-
0	Squire
0	Rectangle
0	Equilateral triangle
0	Trapezium
209 An e	PU_2016_369_E electron in which of the following orbital has the highest probability of approaching nearest to the nic nucleus?  d-orbital
U	p-orbital p-orbital

f- orbital

s-orbital

# 60 of 100

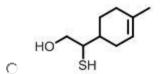
# 153 PU\_2016\_369\_E

Identify the product formed in the following transformation.

## 61 of 100

# 236 PU\_2016\_369\_M

The major product formed in the following reaction is:-



229 PU\_2016\_369\_M

Pt is used in:-

- metallic paintings for cars
- fuel for cars
- Car body frame
- Catalytic converters in cars

### 63 of 100

251 PU\_2016\_369\_M

An acceptable wave function Ψ need not be always:-

- single valued
- normalized
- finite
- continuous

#### 64 of 100

258 PU\_2016\_369\_M

Zero point energy is zero in:-

- harmonic oscillator
- particle in a sphere
- particle in a ring
- particle in a box

#### 65 of 100

221 PU\_2016\_369\_M

Which among the following is more acidic:-

- O NH<sub>3</sub>
- ິ N₂H₄
- ່ H₂S
- C PH<sub>3</sub>

### 66 of 100

256 PU\_2016\_369\_M

In the differential equation  $3(d^2y/dx^2) + (dy/dx)^3 = x$ , the degree and order is:-

n 1, 2

```
3, 3
    3, 2
67 of 100
241 PU_2016_369_M
The standard emf of the cell, Pt|Fe^{3+}(aq),Fe^{2+}(aq) \parallel Sn^{4+}(aq),Sn^{2+}(aq)|Pt, here,
E^{\circ}(s_n^{4+}/s_n^{2+}) = +0.15V; E^{\circ}(F_e^{3+}/F_e^{2+}) = +0.77V
    -1.39V
    +0.62V
    -0.62V
    +1.39V
68 of 100
240 PU_2016_369_M
The average speed of a gas molecule at a given temperature is given by:-
    √(5RT/3M)
    (5RT/3M)^{2}
    √(3RT/M)
    (3RT/M)^2
69 of 100
233 PU 2016 369 M
Reaction of phenyl acetylene with 9-BBN followed by oxidation with H<sub>2</sub>O<sub>2</sub>/NaOH gives:-
    Ethylbenzene
    2-Phenylacetaldeyde
    Acetophenone
    2-Phenylacetic acid
70 of 100
228 PU 2016 369 M
Which one of the following statements is incorrect?
0
    Ferrocene undergoes Friedel-Crafts alkylation reactions faster than benzene
    Oxidation state of Fe in ferrocene is +II
    Ferrocene can be used as Grignard reagent
0
    Ferrocene is an organometallic compoun
71 of 100
```

225 PU\_2016\_369\_M

The ground state free ion term of Pr<sup>3+</sup> is:-

$\circ$	$^{7}F_{0}$
$\circ$	$^{3}$ H <sub>4</sub>
$\circ$	$^{5}$ l <sub>4</sub>
0	$^{1}$ S <sub>0</sub>
72	of 100 PU_2016_369_M
The	e reaction of bromine with (E)-but-2-ene in CCl <sub>4</sub> gives:-
0	meso-2,3-dibromobutane
0	dl-2,3-dibromobutane
0	()-2,3-dibromobutane
0	(+)-2,3-dibromobutane
252 The	of 100 PU_2016_369_M e spacing between levels remains constant in:-
0	harmonic oscillator
0	particle in a box
0	particle in a ring
0	particle in a sphere
237	of 100 PU_2016_369_M organic compound displayed intense signals at m/z 43 and 58 in its mass spectrum. The compound
0	2-ocatanone
0	4-octanone
0	3-octanone
0	Octanal
<b>75 of 100</b> 259 PU_2016_369_M What is the coordination number of body centered cube?  6	
0	4
$\circ$	12
0	8
	of 100 PU_2016_369_M

Which one of the following organometallic compound is strong base:-			
<sup>©</sup> CH₃Li			
<sup>©</sup> CH₃MgBr			
C (CH₃)₂CuLi			
CH₃ZnBr			
77 of 100 255 PU_2016_369_M Orthogonal matrices are necessarily:-			
hermitian			
periodic			
scalar			
unitary			
78 of 100 248 PU_2016_369_M Which of the following spectroscopic techniques can be used to calculate the bond length of a diatomic molecule?			
Infrared spectroscopy			
Rotational spectroscopy			
Ultraviolet-Visible spectroscopy			
None of the above			
79 of 100 244 PU_2016_369_M When an endothermic thermal event above 400°C on an inorganic compound is accompanied by loss of weight of the compound, then which of the following statement is true?  The weight loss could be due to the loss of absorbed moisture from the compoun  The weight loss could be due to the decomposition of the compound with the formation of a gaseous component			
The weight loss could be due to the decomposition with formation of water as well as a gaseous component			
All of the above cases			
80 of 100 224 PU_2016_369_M The metal present in Wilkinson's catalyst is:-			
litanium			
Rhodium			
Platinum			

0	Iridium		
81 of 100 264 PU_2016_369_D Which among the following does not obey 18 electron rule:-			
0	Mo(CO) <sub>6</sub>		
0	$Fe(CN)_6]^4$		
	[Co(NH <sub>3</sub> )6] <sup>3+</sup>		
	$[Cu(OH_2)_6]^{2+}$		
272 Rea This	of 100 2 PU_2016_369_D action of an alkene with diiodomethane in presence of zinc-copper couple gives cyclopropane ring. s reaction is called:-		
0	Simmons-Smith reaction		
	Horner-Wadsworth-Emmons reaction		
0	Corey-Fuchs reaction		
0	Corey-Chaykovsky reaction		
83 of 100 260 PU_2016_369_D X and Y are two elements which form $X_2Y_3$ and $X_3Y_4$ . If 0.20 mol of $X_2Y_3$ weighs 32.0 g and 0.4 mol $X_3Y_4$ weighs 92.8 g, the atomic weights of X and Y are respectively:?			
0	28.0 and 8.0		
0	16.0 and 56.0		
0	56.0 and 16.0		
	8.0 and 28.0		
273	of 100 B PU_2016_369_D  dentify the product formed in the following reaction.  O  NaOEt  EtOH		
0	© OEt		

265 PU\_2016\_369\_D

Which one of the following ions is the most labile?

- O Zn<sup>2+</sup>
- Hq<sup>2+</sup>
- Cd<sup>2+</sup>
- Pt<sup>2+</sup>

#### 86 of 100

268 PU\_2016\_369\_D

NO is paramagnetic in gaseous state and diamagnetic in liquid state because:-

- It loses the odd electron in liquid state
- It gains additional electron in liquid state
- To liquefy NO, it has to be cooled and in cold condition it is diamagnetic
- It dimerizes in liquid state and hence the electrons are paired up

#### 87 of 100

297 PU\_2016\_369\_D

What is the value of following expressions?  $\frac{1}{2+\frac{1}{3+\frac{1}{4+\frac{1}{5}}}} + \frac{1}{1+\frac{1}{1+\frac{1}{3+\frac{1}{4+\frac{1}{5}}}}}$ 

- <sup>U</sup> 1.5
- U 1
- $\circ$  ,
- O 1.25

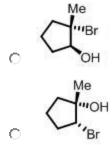
#### 88 of 100

289 PU\_2016\_369\_D

The energy of the particle in a box is independent of:-

- mass of the particle
- length of the box
- charge of the particle

None of the above 89 of 100 288 PU 2016 369 D The energy gap between the n and n+1 level in the particle in a sphere:decrease with increasing in n 0 independent of the value of n remains constant 0 increase with increasing in n 90 of 100 281 PU\_2016\_369\_D Which of the following order is correct in the case of Maxwell velocity distribution of dilute gasses?  $V_{nmost probable} > V_{average} > V_{rms}$ O V<sub>rms</sub> < V<sub>nmost probable</sub> < V<sub>average</sub>  $V_{nmost probable} < V_{average} < V_{rms}$ Vaverage < V<sub>nmost probable</sub> < V<sub>rms</sub> 91 of 100 280 PU 2016 369 D In H<sub>2</sub> molecule which of the electronic configurations cannot be the possible in excited state? σ25<sup>2</sup> (spin up:spin up)  $\circ$ σ15 (spin down) σ25 (spin down) σ15 (spin up) σ25 (spin up) σ151(spin up) σ251(spin down) 92 of 100 277 PU\_2016\_369\_D The major product formed in the following reaction is:-Br2, H2O **DMSO** Me



261 PU 2016 369 D

The solubility product Ksp of CaSO<sub>4</sub>=  $1X \cdot 10^{-6}$ ; BaSO<sub>4</sub> =  $1x \cdot 10^{-11}$ ; Ag<sub>2</sub>SO<sub>4</sub> =  $1x \cdot 10^{-5}$ ; SrSO<sub>4</sub> =  $1x \cdot 10^{-7}$  in water. Which salt will precipitate first in water?

- Ag<sub>2</sub>SO<sub>4</sub>
- <sup>©</sup> BaSO₄
- <sup>©</sup> CaSO₄
- <sup>©</sup> SrSO₄

#### 94 of 100

285 PU 2016 369 D

When one operates with d2/dx2 on the function 8sin (2x), one finds that:-

- The function is not an eigen function
- the function is an eigen function with the eigen value 4
- the function is an eigen function with the eigen value -4
- the function is an eigen function with the eigen value -32

#### 95 of 100

292 PU 2016 369 D

If three Persons A, B and C toss a coin in the same order repeatedly till somebody gets a head, what is the probability of A getting the head?

- U 1/7
- ິ 4/7
- <sup>©</sup> 3/7
- ິ 2/7

#### 96 of 100

269 PU\_2016\_369\_D

Dilute solutions of  $Mn^{2+}$  are almost colorless though there are 5 unpaired electrons in d orbitals. This is due to:-

- the electronic transitions in Mn<sup>2+</sup> are Laporte forbidden
- the electronic transitions in Mn<sup>2+</sup> are spin forbidden
- very high gap between HOMO and LUMO

the absence of LUMO			
97 of 100 299 PU_2016_369_D OH			
1-D, 2-C, 3-B, 4-A			
1-C, 2-D, 3-B, 4-A			
1-D, 2-C, 3-A, 4-B			
1-B, 2-A, 3-D, 4-C			
98 of 100 284 PU_2016_369_D Which of the following is an odd function?			
$f(x) = a \exp(-bx^2)$ , where a and b are constant	ants		
f(x) =  x			
$f(x) = 3x^4 - 2x^2 + 1$			
f(x) = Sin(x) Cos(x)			
99 of 100 276 PU_2016_369_D A hydrocarbon of molecular formula $C_7H_{10}$ on reaction with 1. (sia) $_2BH$ , 2. $H_2O_2$ , aq. NaOH provided 2-cyclopentylacetaldehyde. The hydrocarbon is:-			
1-ethylcyclopentadiene			
ethynylcyclopentane			
1-ethenyl-1-cyclopentane			
1,2-dimethylcyclopentadiene			
100 of 100 296 PU_2016_369_D Which of the following electrolyte is the most eff	ective coagulating agent for Sb <sub>2</sub> S <sub>3</sub> sol:-		
CaCl <sub>2</sub>			
NH₄CI			
$AI_2(SO_4)_3$			
Na₂SO4			