B.Tech./Sem-I/Mid-Term Exam-2022: Engineering

Chemistry-I	
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20 MCQs-1 Mark each	
Choose the correct answer from the given options.	
Bergius process for manufacture of synthetic petroleum involves	1 point
Hydrogenation of aromatics hydrocarbons	
O Dehydrogenation of alkenes	
Hydrogenation of vegetables oils	
Hydrogenation of coal	
	Clear selection
In which case bond order increases?	1 point
In which case bond order increases? © 02 changes to 02+	
O2 changes to 02+	
O2 changes to O2+N2 changes to N2+	
O2 changes to O2+N2 changes to N2+both first and second	



In the formation of N2+ from N2 molecule the electron is removed	d from	1 point
O σ*-orbital		
o σ-orbital		
\bigcap π^* -orbital		
O π-orbital		
	Clear sele	ction
Acatulana and synthosis gas are syamples of		1
Acetylene and synthesis gas are examples of		1 point
C Liquid fuels		
Gaseous fuels		
Primary gaseous fuels		
Secondary gaseous fuels		
	Clear sele	ction
Which type of coal gives more amount of heat after combustion?		1 point
Bituminous		
Lignite		
Anthracite		
O Peat		
	Clear sele	ction

Which of the following is an example of three dimensional polymer?	nt
Nylon-6,6	
Phenolic resins	
Neoprene	
Polystyrene	
Clear selection	
Fixed carbon in coal is defined as	nt
Hundred minus the percentage of volatile matter, ash and moisture	
The total quantity of carbon present in the coal	
The one which is present in the residue after combustion	
That presents in volatile matters	
Clear selection	
0.3 g of coal sample on Kjeldahl's analysis gave ammonia to just neutralize 1 poir 30 ml of 0.1 NH2SO4. Calculate the percentage of nitrogen in the coal sample.	nt
50%	
O 10%	
O 12%	
14%	
Clear selection	

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Which of the following is paramagnetic?	1 point
02	
O22-	
O22+	
○ N2	
	Clear selection
The monomers of Buna-S are	1 point
1,3-butadiene and propene	
1,3-butadiene and vinyl cyanide	
2,3-butadiene and styrene	
1,3-butadiene and styrene	
	Clear selection
Which type of initiator are used up in cationic polymerisation reac	ction- 1 point
● BF3. H20	
NaNH2. H20	
O H202	
All of these	
	Clear selection

Condensation polymers are formed with the elimination of —	1 point
O 02	
O FeSO4	
O BF3	
H20	
	Clear selection
Which type of fuel is lignite?	1 point
Gaseous fuel	
Primary fuel	
Secondary fuel	
C Liquid fuel	
	Clear selection
In the molecular orbital diagram of O2+ ion the highest occupie	ed orbital is 1 point
Ο π*	
Ο σ*	
π	
Ο σ	
	Clear selection

In a polymer, there are 100 molecules of molecular weight 100, 20 molecules of molecular weight 1000 and 300 molecules of molecular weight 10000. The weight average molecular weight (Mw) of the is	ular
5.3x10^3	
9.4x10^3	
O 1.7x10^3	
None of them	
	Clear selection
Volatile matters can be removed while doing the proximate analystemperature	sis at 1 point
● 950 °C	
○ 100 °C	
○ 500 °C	
All the above	
	Clear selection
Which one of the following will have distorted octahedral shape?	1 point
XeOF4	
○ SF6	
O IF7	
XeF6	
	Clear selection

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The gross and net calorific value of a fue	l is equal. It means that its - 1 point
Carbon content is very low	
Ash content is zero	
Under no circumstances	
Hydrogen/hydrogen compound content is	s zero
	Clear selection
Which of the following is correct?	1 point
Vulcanization increases the elasticity and	d decreases the solubility of rubber
Vulcanization decreases both the elastic	ity and solubility of rubber
Vulcanization increases both the elasticit	ty and solubility of rubber
Vulcanization decreases the elasticity an	d increases the solubility of rubber
	Clear selection
Number of electron pairs present in I3-	1 point
Two lone pairs & two bond pairs	
One lone pair & two bond pairs	
Three lone pairs & three bond pairs	
Three lone pairs & two bond pairs	
	Clear selection
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