No. of Printed pages: 02

Sardar Patel University Examination 2019 M.Sc. Semester-III (Inorganic Chemistry) Organometallic compounds (PS03CINC23)
22nd November 2019 (Friday)

Time: 2.00 pm to 5.00 pm

Time: 2.00 pm to 5.00 p	Total Marks: 70
Note: Numbers at the right show full marks.	[8]
Q.1. Answer the followings:	
1) The organometallic compounds are those, which con	(b) less electronegative
(a) more electronegative	(d) less electropositive
(c) more electropositive	anantadienyl: -C. Ho: cyclopentyl).
(c) more electropositive 2) The Li-C ₅ H ₅ is than Li-C ₅ H ₉ (-C ₅ H ₅ : cycl	(b) less reactive
(a) more reactive	(d) more electrophilic
(c) more nucleophilic	vior alkali metals (M-R: M=Na to Cs)
(c) more nucleophilic 3) The metal-carbon bond in alkyl derivatives of hear	m (I; P)
are than that in alkyl derivatives of infinite	(b) more ionic
(a) more covalent	(d) less electron deficient
(a) more electron deficient	
4) The oxythallation reactions involve conversion of _	(b) Th(II) into Th(I)
(a) Th(I) into Th(II)	(d) Th(III) into Th(I)
(c) Th(I) into Th(III)	
5) The RhH(CO)(PPh ₃) ₃ is used as catalyst in	(b) Monsanto process,
(a) Hydrogenation process	(d) Hydroformylation process
(a) Wooker process	
6) The Water Gas Shift Reaction is carried out using	
(a) Co ₂ (CO) ₈	(0) 10304
(a) PdCla	(d) CuO
7) Salvarsan and Neosalvarsan are derivatives of	d N TT
(a) Sb	(0) 115
(c) Ac	(d) Si
8) The Alsol, an organosilicon compound is used	a c it is for good preservation
(a) as pesticide	(b) as tangiorde les been p
(c) as herbicide	(d) for ripening of fruits [14]
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	tendency for following organization much
compounds giving reason: Al(Me)3, Al(Et)3, A	$A(i-Pr)_3$ and $A(i-Bu)_3$ [Me. methyl, Ec
ethyl; <i>i</i> -Pr: <i>iso</i> -propyl; <i>t</i> -Bu: <i>tert</i> butylj.  2) Write the metal hydride addition reactions to a	alkenes for the synthesis of main group
. 11' da	
1 1 C 1 theory of m -comple	exes of transition metals.
A White - recation which involves the formation of	I Organozine compount
5) Write the uses of organocadmium compounds in	organic synthesis.
6) What are Ziegler-Natta catalysts?	
o) Cive the name of important organosilicon comp	ounds which are used as medicines.
9) Write the name of organotin compounds useful	as pesticides.
y) with the name of organous stand	(PTO)

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