(45)

KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT SERVICES (BPS-17).

2016

CHEMISTRY PAPER-II

			No.		
TIME	ALL	OWED:	03	HO	HRS

MAX:MARKS: 100

Note:	Attempt any Five questions. All questions carry equal marks	
Q1.	A) Describe the important features of Valance Bond Theory and Molecular Orbitheory?	tal
	B) Why Bond angles reduce by increasing lone pairs with examples?	08
Q.2	A) According to reaction kinetics which type of reaction occur in our body? Explain order of reaction with the help of equation?	ain 14
	B) Describe the Rate Law with equation?	06
Q.3	A) Discuss Homogenous and heterogeneous Catalysis with daily life example?	10
	B) Explain optical and geometric isomerism with examples?	10
Q.4	A) Write Synthetic applications of Halogen Compounds?	08
	B) Describe the bonding and reactivity of Carbonyl compounds?	12
Q.5	A) Drive the mechanism of following Electrophilic Substitution Reactions: Nitration, Formylation and Sulphonation?	12
	B) What are dyes and applications of dyes in industry?	08
Q.6	Explain bonding in Benzene and problems with the Kekulé structure?	20
Q.7	A) What are the role of Carbohydrates and fats in body?	08
	B) What is Fermentation ? How Fermentation processes uses for the preparation of Petro-chemical industry?	of 12
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	B, What is the roll of vertimen in the	re
	on vit. B and C.	