INDIAN SCHOOL MUSCAT

NAME OF THE EXAMINATION	SECOND PERIODIC TEST	CLASS: XII
DATE OF EXAMINATION	01.06.22	SUBJECT: CHEMISTRY
TYPE	MARKING SCHEME	

SET A	Q.NO	VALUE POINTS	MARK
	1	B	1
	2	B	1
	3	D	1
	4	Both C and D are wrong	1
	5	D	1
	6	p-nitrophenylethanoate (or) the correct structure	1
	7	tert-butyl alcohol (or) the correct structure	1
	8	2-Ethoxybutane	1
	9	Correct equation for hydroboration and oxidation of phenyl ethene	1
	10	Phenol gives violet colour with neutral Ferric Chloride, ethanol doesn't.	1
	11	Kolbes reaction	1
	12	(a) Secondary and tertiary alcohols undergo dehydration to form alkenes as major products. (b) Correct explanation	1 each
	13	(a) $C_6H_5OH + C_2H_5I$ (b) $CH_3COOC_6H_5$	1 each
	14	(a) $C_2H_5MgBr + H_3O^+$ (b) $Br_{2(aq)}$	1 each
	15	Correct mechanism	3x1 each
SET B	1	A	1
	2	C	1
	3	D	1
	4	D	1
	5	A	1
	6	3-Methyl-4-nitrophenol and 5-Methyl-2-nitrophenol	½ + ½
	7	Butan-2-ol	1
	8	6-Methyl-1-phenoxyheptane	1
	9	Correct equation	1

	10	Lucas test (or) iodoform test	1
	11	Williamsons synthesis – correct example	1
	12	a) Intermolecular hydrogen bond b) $LiAlH_4$ that reduces acid is expensive. Hence to make the process economical.	1 each
	13	a) Equation to show the conversion of phenol to benzoquinone. b) Equation to show acetylation of phenol to form phenylacetate.	1 each
	14	a) Diazotisation followed by warm water b) CH_3Cl, $AlCl_3$	1 each
	15	Correct mechanism	3x1 each
SET C	1	C	1
	2	B	1
	3	B	1
	4	B	1
	5	C	1
	6	p-bromophenylethanoate structure	1
	7	3-Methylbutan-2-ol	1
	8	1-Phenoxy-1-phenylmethane (or) Phenoxyphenylmethane	1
	9	Correct equation for catalytic hydration of phenyl ethene	1
	10	Lucas test	1
	11	Reimer Tiemann reaction	1
	12	a) Intermolecular hydrogen bond b) Secondary and tertiary alcohols undergo dehydration to form alkenes as major products.	1 each
	13	a) Equation to show formation of benzoic acid b) Equation to show acetylation of phenol to form phenylacetate.	1 each
	14	a) CH_3MgBr/H_3O^+ b) Oleum followed by (i) NaOH, (ii) H^+	1 each
	15	Correct mechanism	3x1 each