NAME REACTIONS OF ORGANIC CHEMISTRY

(VOLUME – 2)

"Education is the manifestation of perfection already in man"

– Swami Vivekananda.

(12^{th}. January 1863 – 4^{th}. July 1902)

NAME REACTIONS OF ORGANIC CHEMISTRY (VOLUME – 2)

XI, XII & B.Sc (Pass & Hons.)

CBSE, ISC, WBCHSE and all state boards (JEE-IIT/WBJEE/NEET)

DHRUBA KUMAR SENGUPTA

B.Sc. (Hons. in Chemistry.), M.Sc. (Chemistry.), B.Ed.,
Research Experience at NIT Durgapur, W.B.

SADANANDA PRAKASHANI

Publisher & book sellers
5\1, Ramanath Mazumder Street,
Kolkata : 700009
West Bengal

CONTENTS

SN.	SERIES.	NUMBER PAGE
01.	SERIES – J	1-6
02.	SERIES – K	7-33
03.	SERIES – L	34-46
04.	SERIES – M	47-92
05.	SERIES – N	93-103
06.	SERIES – O	04-115
07.	SERIES – P	116-154
08	SERIES – Q	155-159
08	SERIES – R	160-188
08	SERIES – S	189-246
08	SERIES – T	247-262
08	SERIES – U	263-271
08	SERIES – V	272-280
08	SERIES – W	281-315
08	SERIES – Z	316-318

SERIES : "J"

SN.	NAME REACTIONS.	PAGE NO.
01.	Jacobsen Expoxidation Reactions	1-2
02.	Jacobsen Rearrangment (1886)	2-4
03.	Japp-Klingemann Reaction (1887)	4-6

SERIES : "K"

01.	Kharasch Reaction (1933)	7-8
02.	Kharasch Rearrangement (1944)	8-9
03.	Kiliani-Fischer Synthesis (1886)	9-11
04.	Knoevenagel condensation Reaction	11-16
05.	Knorr Pyrrde Synthesis (1884-86)	16-17
06.	Koch Reaction	17-19
07.	Koch haaf Reaction	19-20
08.	Kochi Reaction (1965)	21-22
09.	Kocheshkov Reaction	22-23
10.	Kplbe Electrolytic Reaction (1849)	23-25
11.	Kolbe- Schmidt Reaction (1885)	25-27
12.	Konovalov Reaction	27-28
13.	Kostanecki Synthesis (1900)	28-30
14.	Krohnke Reaction	31-32
15.	Kucherov Reaction (1881)	32-33

Series-L

01.	Lederer-manasse Reaction (1894)	34-37
02.	Leuckart Reaction (1885)	37-42
03.	Lobry de Bruyn-van Ekenstein Rearrangement (1890)	42-44
04.	Lossen Rearrangement (1875)	44-46

Series-M

01. Madelung Indole Synthesis (1912) 47-50
02. Malaprade Reaction (1934) 51-52
03. Mannich Reaction (1917) 52-58
04. Marckwald Imidazole Synthesis 58-60
05. Mc Fadyen-steven Reduction 60-62
06. Mc kenzie Reaction or Rearrangement or
Mckenzie ixidative dreamination Reaction 62-64
07. Mc Lofferty Resrrangement 64-66
08. Meerwein Reaction 66-67
09. Nerrwein Arylation Reaction (1939) 68-69
10. Meerwein-koelsch Reaction 70-72
11. Meerwein Pondorf-Verley Reduction 72-74
12. Meisenheimer Rearrangement 75-76
13. Mendius Reaction 76-77
14. Menschutkin Reaction (1890) 78-79
15. Meyers Synthesis 79-81
16. Meyer-Schuster Rearrangement 81-83
17. Michael Reaction (1837) 83-89
18. Mills Reaction or Baeyer-Mills Reaction(1874) 89-91
19. Mozingo Reaction ((1943) 91-92

Series-N

01. Neber Rearrangement (1926) 93-95
02. Nef Synthesis 95-97
03. Nef Reaction (1894) Or Nef Carbonyl synthesis 97-101
04. Nesmeyanov Reaction 101-103

Series-O

01. Oppenaver Oxidation Reaction 104-108
02. Orton Rearrangement or Chloramin Rearrangement 108-110
03. Ozonolysis Reaction or Harres Reaction 110-115

Series-P

01. Paal-Knorr Synthesis (1884) 116-118
02 Passrini Reaction (1921) 119-121
03. Paterno-Buchi Reaction 121-123
04. Pechmann Reaction (1883) 124-125
05. Pellizzari Reaction 126-127
06. Perkin Reaction 127-130
07. Pfitziniger Reaction (1886) 130-132
08. Pictet-spengler Reaction (1911) 133-135
09. Pinacol- Pinacolonl Rearangement or
Fittig Rearrangement (1860) 135-138
10. Pinner Reacrion 138-141
11. Pomeranz-Fritsch Reaction (1893) 141-143
12. Prileschaier Reaction (1909) 144-147
13. Prins Reaction 148-149
14. Pschoor Synthesis (1986) 150-153
15. Pyridoin Condensation Reaction or
Liebig-wogler condensation Reaction 153-154

Series-Q

01. Quelet Reaction or Blanc-Quelet Reaction (1932) 155-159

Series-R

01. Ramberg-Backlund Reaction 160-161
02. Reformatsky Reaction (1887) 161-166
03. Reid Reaction 166-167
04. Reilly-Hickinbottom Rearrangement 167-169
05. Reimer-Tiemann Reaction 169-172
06. Rtter Reaction (1948) 173-176
07. Robinson Gabriel oxazole Systhesis 176-179
08. Robinson- vogel Reaction 179-181

09. Rosenmud Reduction Reaction (1918) 181-182
10. Rosenmund- von Burn Reaction 182-184
11. Ruzika Reaction 184-188

Series-S

01. Sabatier- sederens Reaction (1897) 189-192
02. Sundmeyer Reaction (1884) 193-195
03. Schlenk Reaction 195-197
04. Schmidt Reaction (1924) 197-203
05. Scholl Reaction 203-204
06. Schollen-Baumen Reaction 204-207
07. Shorygin Reaction 207-208
08. Simmons Smith Reaction 208-210
09. Skranp Synthesis (1880) 210-213
10. Smiles Rearrangement 214-215
11. Sommelet- Hanser Rearrangement 216-219
12. Sommele-Hanser Rearrangement 219-221
13. Sonn-Miller Reaction 221-222
14. Stephen Reaction (1925) 222-224
15. Stevens Rearrangement (1928) 224-227
16. Stieglitz Rearrangement 227-229
17. Stiles-Sisti Reaction 229-231
18 Stobbe Condensation Reaction 231-233
19. Stork Enamine Reaction 234-238
20. Story Synthesis 239
21. Strecker Reaction (1868) 239-240
22. Strecker Amino Acid Degradation Reaction 240-242
23. Streck Synthesis (1850) 242-245
24. Swarts Reaction (1898) 245-246

Series-T

01. Thenil-Thenitic Acid Rearrangement or von-Liebig Rearrangement 247-248
02. Thiele Acetylation Reaction (1893) 248-249
03. Thorpe Reaction (1904) 250-252
04. Thorpe-Ziegler Reaction 252-254
05. Tiffenen-Demzanor Reaction 254-256
06. Tischenko Reaction 256-257
07. Tollen Reaction 257-259
08. Traube Purine Synthesis (1900) 260-262

Series-U

01. Ugi Reaction 263-266
02. Ullmann Reaction or Ullmann amine Synthesis 267
03. Ullmann Reaction (Biaryl Synthesis) (1903) 268-270
04. Ullmann Reaction (Ether Synthesis) 270-271

Series-V

01. Von- Braun Reaction (Alkyl cyanide Synthesis) 272-274
02. Von-Braun Reaction (Synthesis of Canaride aerivative 274-276
03. Vilsmeier- Hack Reaction 276-280

Series-W

01. Wagner Reaction 281-283
02. Wagner Rearrangement or Wagner Meerwein Rearrangement 284-285
03. Wallach Reaction 285-287
04. Wallach Rearrangement 288-289
05. Williamsan Reaction or Williamson Ether Synthesis (1850) 290-291
06. Willgerodt Reaction (1887) Willgerodt Amide Synthesis Reaction 291-295
07. Will gerodt Reaction (Choloride Synthesis) 295-296
08. Will gerodt Reaction (Diphenyl lodo choloride Synthesis 296-297
09. Willstatter Synthesis 297-298

10. Wittig Reaction (1953-1956) 298-301
11. Wittig Rearrangement 302-304
12. Wolf- kishner Reduction (1912) 304-307
13. Wohl-Ziegler Bromimation Reaction 308-310
14. Wurtz Intramolecular Reaction 310-312
15. Wurtz Inlermodeculor Reaction 312-314
16. Wurtz-Fittig Reaction 314-315

Series-Z

01. Ziegler Alkylation Reaction 316-317
02. Zinin Reaction 317-318