XI.

- 53. Organic and inorganic bodies.
- 54. Starch ;-its preparation, properties and use.
- 55. Gluten; -manufacture of bread; -illustration.
- 56. Lignin;—preservation of wood.
- 57. Paper; its manufacture.

XII.

- 58. Fibrin; -albumin, gelatine; preparation and use.
- 59. Tanning.
- 60. Gums.
- 61. Properties of sugar; —extraction of sugar from the cane and from beets.
 - 62. Refining sugar.
 - 63. Glucose.

XIII.

- 64. Fermentation.
- 65. Alcohol;—its properties and use.
- 66. Manufacture of cider and beer.
- 67. Ether; -its preparation and use.
- 68. Manufacture of vinegar.

XIV.

- 69. Turpentine; its preparation and use; -varnish.
- 70. Caoutchouc; -vulcanized gum-elastic.
- 71. Manufacture of soap, stearine candles and tallow candles.
- 72. Dye stuffs; bleaching; mordants.
- 73. Cotton printing.
- 74. Oxalic, tartaric and tannic acids.

PROGAMME Nº 4.

NATURAL HISTORY.

Ι.

- 1. Definition of Natural History.
- 2. Division of natural bodies into three kingdoms.
- 3. Characteristics of organized and unorganized forms.
- 4. Characteristics of animals and plants.

II.

Zoolojy.

- 5. Animals; their organic tissue.
- 6. Brief description of digestive orguns