

*Communications for the Transmission of Messages.*

*Ballooning.*—General considerations.

*Observatories.*—Object, requirements, method of construction of various kinds.

**PLATES.**—IV. Project for a military railway bridge.

**FAIR NOTES**—On lectures during the term.

**EXERCISES**—Report on project.

**SUBJECT OF EXAMINATION—JUNE**—The whole subject.

**MARKS**—For work during the the term..... 400

For examination, June ..... 600

Total..... 1,000

ENGINEERING DRILL.

3RD TERM—TOTAL MARKS, 500.

FIELD FORTIFICATION.

*Preliminary.*

Carrying tool drill and extending working parties. Field Geometry.

*Obstacles.*

Abattis ordinary. German bough abattis. Shallow military pits. Irregular pits with wire entanglement stretched over. Wire entanglement. Palisades. Fraises. Chevaux-de-Frise.

COVER FOR TROOPS.

*Infantry.*

*Shooting Line.*—Shelter pits and rifle pits. Shelter trench exercise. Blinded shelter trenches, defensible hedges, walls and snake fences. Log, hurdle and plank parapets. Stockades of various kinds.

*Supports.*—Deep shelter trenches. Blinded shelter trenches. Field casemates of various kinds.

*Reserves.*—Lean-to shed covered with earth.

*Artillery.*

*Guns and Detachment.*—Gun pits. Gun epaulements. Gunner pits.

*Ammunition.* Ammunition recesses in above.

*Limbers.*—Limber pits.

*Use of brushwood.*

Making pickets, gabions, fascines and hurdles.

*Revetments.*

Made of the following materials :—Gabions, casks, fascines, logs, planks, hurdles, continuous hurdle work, sand-bags, bricks, stone, miscellaneous.

*Field-Redoubt.*

Tracing, profiling and defilading full size. Executing in model. The redoubt to contain splinter proofs, traverses and occasionally gun-banks.