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TELEGRAMS: "BACTERIA," LIVERPOOL.

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THE UNIVERSITY OF LIVERPOOL.

BACTERIOLOGICAL DEPARTMENT,
JOHNSTON LABORATORIES.

6 March 1817

I have very great pleasure in supporting the application of Mr F.C.H. Sergeant for admission to the Dept of Cont. U.T.C. Mr Sergeant is a medical student of the University of Liverpool in his first year - a matriculated student. This a man who, I am sure, will be a most desirable member in every way. His work here has been most satisfactory.

J. M. Beattie
Major R.A.M.C.
Dean of the Medical Faculty
University of Liverpool.

F.C.H. Sargent.

No. 2 R.F.A. OFFICER CADET SCHOOL.

GUNNERY.

B CLASS.

- 1.—(a) Define:—interval; distance.
 (b) What are the aids used by the various drivers for wheeling to the right with a 6-horse team?
 (c) How does a driver salute in the following cases?
 i. In a team.
 (a) At the halt,
 (b) At a walk,
 (c) At a trot.
 ii. On a bicycle.
- 2.—(a) How is the work of a detachment carried on with four numbers?
 (b) Describe the procedure of laying indirect without a Dial Sight.
3. O.P. is on the right front of Battery. OT—3400 yds. OH—800 yds. Target, a trench 300 yds. long. The B.C. measures exterior angle 43 deg.; AS. OT—75 min. dep.; AS. OH—2 deg. 45 min. dep. He decides to range with Collective, No. 80 Fuze. Corrector for the day 164. Give his orders down to "Fire."
- 4.—On firing an 18 pr. the front flange of the inner spring case shears off. Describe the procedure to get the gun in action again. You are provided with a new inner spring case.
- 5.—In conducting a Laying Test for what faults
 (a) would you deduct some marks?
 (b) would you deduct all marks?
- 6.—Describe the procedure of testing and adjusting
 (a) the Range Indicator, and
 (b) the No. 7 Dial Sight of the 18 pr.
- 7.—Shortly after getting in front a march one of your Nos. 1 comes to report that the off leader of one of your gun teams has colic. Your section is billeted in a large farm, but your horses are picketed out. What action would you take, and what directions would you give?
- 8.—You are doing a week's light duty at the Base, and your Major has asked you to arrange to bring him up 100 Corona cigars for himself—limiting the expenditure on his account to 50 francs. You find that the only ones obtainable are Flor di Cabbagio, which cost 50 francs per 100. There is just time to write and ask what you should do. Write a suitable letter to him explaining everything, giving your own recommendations and asking what he would like you to do.

N.B.—"Brevity is the soul of wit."

F.C. Hilton Lieutenant

D 2 TEST EXAMINATION

24-11-27

1. (a) Name the parts of the breech mechanism (18pdr)
(b) In what respects does the Howitzer differ from the 18 pdr?
2. (a) What is the ration per horse per diem on Active Service.
(b) What are the principles of watering and feeding?
(c) If you observe that a horse was missing his oats who, what steps would you take?
3. Give the R.O.'s fire orders in their proper sequence.
4. As R.O. you find that no Aiming Points are available, and your Director is displaced 200° to a flank; what method would you adopt to get your guns on the correct line of fire.
5. Give in two words of the book the detail of "P. load" and "Couse Firing".
6. State the four principal methods which the R.O. can employ to get his guns on to the target.
7. Draw a diagram showing intervals, distances etc, of a six gun battery in battery column, and battery Counter Column.
8. What do you understand by:-
Stand Fast, Column of Subsections, battery Leader, Lines of Fire, and Collective Ranging.
9. Give the rules of calculation, R.O.'s correction ^{for} parallelism, distribution and concentration for width of target, and alteration of Corrector to obtain ^{for} effective burst.
10. As R.O. at the observing station you make the following measurements R.L. of I.A.F. at 170° L.R. of Battery 260
Distance O.P. 4500° C.R. 450° Angle of sight R.O. 30° Dop Target on 50 metre contour C on 30 metre contour.
Required Orders to fire the R.O. the line of fire angle of sight R.L. also Range S.T.
11. As R.O. of a battery you are Displaced 200° on the left flank you select an A.P. and the angle measured between the line of fire and A.P. is 90° Right your battery is at Right angles to the line of fire Range S.T. 4000° .
What Orders are necessary to get the guns on to the Target and get the line of fire?.