

Signalling Revision Questions: LC's

1. At crossings with four barriers, the entrance barriers lower first, which relay causes the exit barriers to lower?
2. What is the difference between hydraulic barrier motors and electric barrier motors in relation to the lowering operation?
3. What MUST you do before you disconnect a hydraulic barrier motor for renewal?
(Tip: Bear in mind that the correct answer given from question 2 above)
4. What cannot you do at a full barrier crossing (all road closed) compared to a AHB crossing (when barriers are lowered) – [by hand]?
5. What MUST you ensure when you replace a barrier pack (a device on pack itself)?
6. What relay signifies the red road lights are lit?
7. On AHB crossings on the local control panel, what button must be fully pressed in before the crossing can be handed back to the SB?
8. On a MCB or CCTV controlled crossing, what button must be pressed when the barriers are fully lowered to enable the signal to be cleared?
9. At a AOCL or AOCL, what indicates to the driver that the train sequence is complete and its safe to proceed?
10. What is the main relay at a AHB crossing that indicates the crossing is working or raised?
11. *(From Q above):* How has this relay changed from a Mk1 set to a modified more modern Mk2 set?
12. Which relay commences the lowering sequence (powers the hydraulics)?
13. Which lights are proved in the circuit on all barriers and what happens if this condition fails after the barriers are lowered?
14. Do all crossings have yodels?
15. What sound would you hear at a AHB when two trains on the opposite lines are approaching at the same time?
16. What is the PETS system & what is it for?
17. What is known as 'hunting'?
18. Are barriers always battery back-up?
19. What is the main operating voltage at barriers?
20. What is the unit called that operates the red road lights?

21. What are the following crossing definitions:
AHB, CCTV, MCB, AOCL, AOCR, ABCL, TOB, OCB, MG, MWL, UWC, OCC,
AHB-X, BC.
22. At Trainman operated barriers pulling the cord starts off the sequence, but what happens when:
 - a) it is pulled again?
 - b) it is pulled a third time?
23. At AHB's the indication to the signaller is 'working, raised and failed' how is this possible when the return circuit uses just three wires?
24. As well as track circuits, two sets of treadles are used too, if you were travelling in the correct direction, which treadles would you arrive at first and then second?
25. Which relay controls the red lights flashing?
26. At AHB's what is the required time from striking-in to passing the crossing?
27. At MCB's & CCTV type crossings, there are usually four cams in the pedestal, which four things do these signify/control?
28. What is the (boom) CR & the (door) CR?
29. Before taking to tip weight, what MUST be disconnected first to ensure a correct reading?
30. Identify the following in relation to which barrier it is;
 - a) YN?
 - b) YO?
 - c) ZN?
 - d) ZO?