**Crossmatch Paper Problem**

**Refer to the information below for quiz questions 1-4**

**Hospital Information:**

Potter Medical Center is a 350-bed community hospital that offers general medical, obstetrical, surgical and emergency services. The blood bank supervisor and two full time technologists staff the blood bank on first shift. The gel test is used for routine antibody detection, identification and for antiglobulin crossmatching. The routine method for compatibility testing is the immediate spin crossmatch.

**Patient Information:**

Harry Dursley is a 42-year-old dialysis patient who presents bimonthly for red cell transfusion. An appropriately labeled specimen is delivered to the blood bank Monday morning. A two unit crossmatch has been ordered for transfusion on Wednesday. The test results are as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **anti-A** | **anti-B** | **anti-D** |  | **A1 cell** | **B cell** |
| 0 | 0 | 3+ | 4+ | 4+ |

|  |  |
| --- | --- |
| **XM Unit** | **IS** |
| #1 | 0 |
| #2 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SCR**  **Cell** | **D** | **C** | **E** | **c** | **e** | **V** | **Cw** | **K** | **k** | **Fya** | **Fyb** | **Jka** | **Jkb** | **M** | **N** | **S** | **s** | **Lea** | **Leb** | **P1** | **AHG** |
| 1 | + | + | 0 | 0 | + | 0 | 0 | 0 | + | + | 0 | + | 0 | + | 0 | 0 | + | 0 | + | + | 0 |
| 2 | + | 0 | + | + | 0 | 0 | 0 | + | + | + | + | 0 | + | + | + | 0 | + | + | 0 | + | 1+ |
| 3 | + | + | 0 | 0 | + | 0 | 0 | 0 | + | 0 | + | + | + | 0 | + | + | 0 | + | 0 | 0 | 0 |

**Refer to the information below for quiz questions 5-10**

**The results of the antibody identification panel, auto control and the antiglobulin crossmatch follow. All testing was performed using the gel technique.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Panel**  **Cell** | **D** | **C** | **E** | **c** | **e** | **V** | **Cw** | **K** | **k** | **Fya** | **Fyb** | **Jka** | **Jkb** | **M** | **N** | **S** | **s** | **Lea** | **Leb** | **P1** | **AHG** |
| 1 | + | + | 0 | 0 | + | 0 | 0 | 0 | + | + | + | + | 0 | + | + | 0 | + | 0 | + | + | 0 |
| 2 | + | 0 | + | + | 0 | + | 0 | 0 | + | 0 | 0 | 0 | + | 0 | + | 0 | + | + | 0 | + | 0 |
| 3 | + | + | 0 | 0 | + | 0 | 0 | + | + | 0 | + | 0 | + | 0 | + | 0 | 0 | + | 0 | 0 | 0 |
| 4 | + | + | 0 | + | + | 0 | 0 | + | 0 | 0 | + | + | + | + | 0 | + | 0 | + | 0 | + | 0 |
| 5 | 0 | 0 | + | + | + | 0 | 0 | 0 | + | 0 | + | + | + | 0 | + | 0 | + | 0 | + | 0 | 0 |
| 6 | + | 0 | 0 | + | + | 0 | + | 0 | + | 0 | 0 | + | 0 | + | + | 0 | + | 0 | 0 | + | 0 |
| 7 | 0 | 0 | 0 | + | + | 0 | 0 | 0 | + | + | + | + | 0 | + | + | 0 | + | + | 0 | + | 1+ |
| 8 | 0 | 0 | 0 | + | + | 0 | 0 | + | + | + | 0 | 0 | + | + | + | + | + | 0 | + | + | 0 |
| 9 | 0 | 0 | 0 | + | + | 0 | 0 | 0 | + | 0 | + | 0 | + | 0 | + | 0 | + | + | 0 | 0 | 0 |
| 10 | + | 0 | + | + | 0 | 0 | 0 | 0 | + | 0 | + | + | 0 | + | 0 | + | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | + | + | 0 | 0 | 0 | + | + | 0 | + | + | 0 | + | 0 | + | 0 | + | 0 | 0 |
| 12 | 0 | 0 | 0 | + | + | 0 | 0 | 0 | + | 0 | 0 | + | 0 | + | + | 0 | + | 0 | 0 | + | 0 |
| auto |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |

|  |  |
| --- | --- |
| **XM Unit** | **Anti-IgG/Gel** |
| #1 | 0 |
| #2 | 0 |