

# MSC/PHD MATHEMATICS 2014 SOLUTIONS

## Part A

1. B, D.
2. A, B.
3. B.
4. B, C.
5. C, D.
6. B, C.
7. A.
8. A, B, D.
9. 2.
10. 2.

## Part B

- (11) The set of rank 2 matrices in  $M_{2 \times 3}(\mathbb{R})$  is open: Consider the map  $f : M_{2 \times 3}(\mathbb{R}) \rightarrow \mathbb{R}^3$  given by sending a matrix to the triple of its  $2 \times 2$  minors. This is a continuous map. The set of rank 2 matrices is the inverse image of the set  $\{(x_1, x_2, x_3) \in \mathbb{R}^3 \mid x_i \neq 0 \text{ for some } 1 \leq i \leq 3\}$ . This set is open in  $\mathbb{R}^3$ , hence the set of rank 2 matrices is open in  $M_{2 \times 3}(\mathbb{R})$ .
- (12) (A) The kernel of  $\phi$  is a proper ideal in  $F$ . Hence it is zero, as there are no nonzero proper ideals in a field. Since  $\phi(1) = 1$ , using properties of a field homomorphism we conclude that  $\phi(r) = r$  for every  $r \in \mathbb{Q}$ . Now if  $r \in \mathbb{Q}$  and  $x \in F$ , then  $\phi(rx) = \phi(r)\phi(x) = r\phi(x)$ . Thus  $\phi$  is a homomorphism of vector spaces over  $\mathbb{Q}$ . Since  $\phi$  is injective and dimension of  $F$  over  $\mathbb{Q}$  is finite, it follows that  $\phi$  is also surjective. Thus  $\phi$  is a field isomorphism.

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**Anthony S. Fauci**

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balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every.