13th PMO 2010-2011 Qualifying Stage

Answer Key

I. (Two points each)

- 1. b
- 2. c
- 3. a
- 4. b
- 5. d
- 6. d
- 7. a
- 8. c 9. d
- 10. d
- 11. c
- 12. c
- 13. a
- 14. c
- 15. a
- II. (Three points each)
- 1. b
- 2. d
- 3. c

4. This question was discarded since the given

continued fraction is

divergent. If the question of convergence is not

taken into account, the

answer should be -1.

5. d

6. a

7. This question was discarded because the correct answer was not among the

choices. The slope is 4/3.

8. c

9. a

10. This question was discarded because the correct

answer was not among the

choices. There are 30 such arrangements possible.

- III. (Six points each)
- 1. c
- 2. b
- 3. d
- 4. b
- 5. d