HISTORY OF MATHEMATICS: MOCK EXAMINATION, 2013.

Section A: answer 5 questions out of 10; 10 marks each.

Write brief historical accounts of *five* of the following:

- Q1. The mathematics of the rainbow.
- Q2. The formula of spherical excess.
- Q3. The pentagram.
- Q4. The Fundamental Theorem of Arithmetic.
- Q5. The electromagnetic theory of light.
- Q6. The mathematics of perspective.
- Q7. The Prime Number Theorem.
- Q8. The heliocentric theory.
- Q9. The Archimedean solids.
- Q10. Centres of learning.

Section B: answer 2 questions out of 4; 25 marks each.

Write historical accounts of *two* of the following:

Q1. The number π .

Q2. Conics and orbits, with reference to the work of Kepler and Newton.

Q3. The normal distribution, the Central Limit Theorem and the Method of Least Squares.

Q4. Solution of polynomial equations.

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