HISTORY OF MATHEMATICS: EXAMINATION, 2013-14.

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

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

Q1. The Fundamental Theorem of Algebra.
Q2. The wave equation.
Q3. Mechanics up to (and including) Newton.
Q4. The mathematics of length, area and volume.
Q5. The abacus and its successors.
Q6. The Platonic solids.
Q7. The calculus of variations.
Q8. The emergence of the decimal system.
Q9. Projective geometry.
Q10. The mathematics of heat.

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

Write historical accounts of *two* of the following:

Q1. The connections between mathematics and astronomy, from ancient to modern times.

Q2. The development of the real number system $\mathbb{R}$.

Q3. The development of probability theory.

Q4. The development of linear algebra.

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