

NST2BBS
Natural Sciences Tripos Part II: Biological and Biomedical Sciences

Tuesday 6 June

09.00–12.00

Paper 45

Philosophy and Ethics of Medicine

*You should answer **four** questions in total. Answer **at least one** question from Section A and **at least one** question from Section B. All questions carry equal weighting.*

Begin each answer on a separate sheet.

*Write legibly and on only **one** side of the paper.*

Answers must be tied up in separate bundles, marked 1, 2, 3, etc. according to the number of the question.

*Attach a completed coversheet to each bundle and complete a master coversheet listing all questions attempted. It is essential that you write your examination number and **not** your name on the coversheet and on **each** bundle.*

You may not start to read the questions printed on the subsequent pages of this question paper until instructed to do so by the invigilator.

SECTION A: Philosophy of Medicine

1. When is it reasonable to make causal inferences about humans based on animal experiments?
2. What are the main arguments against employing screening programmes to identify cases of disease as early as possible? Are these arguments successful?
3. What sorts of properties should be measured in clinical research, and how should such measurements be analysed?
4. What are the most worrying threats to the reliability of clinical research? Do medical scientists mitigate those threats?
5. When public healthcare resources are allocated, should quality of life estimates for health states be provided by the public?
6. What kinds of unanticipated effects does quantification produce in health policy, and through which means?

SECTION B: Ethics of Medicine

7. When, if ever, is a foetus a person, and why, if at all, does this matter?
8. Is there an obligation to participate in medical research?
9. When and why should we worry about health inequalities?
10. What, if anything, is wrong with the Nanny State?
11. How should biomedical research agendas be determined?
12. What role should non-epistemic values play in biomedical research?

END OF PAPER

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Thursday 8 June

09.00–12.00

Paper 65

Early Medicine

*You should answer **three** questions. All questions carry equal weighting.*

Begin each answer on a separate sheet.

*Write legibly and on only **one** side of the paper.*

Answers must be tied up in separate bundles, marked 1, 2, 3, etc. according to the number of the question.

*Attach a completed coversheet to each bundle and complete a master coversheet listing all questions attempted. It is essential that you write your examination number and **not** your name on the coversheet and on **each** bundle.*

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1. How did the role of Ancient authors change in the shaping of medical and natural knowledge from the medieval to the early modern period?
2. How did first-hand experience contribute to the development of medical and natural knowledge before 1600?
3. Assess the influence of astrological ideas on views of health and medical practice in medieval Europe.
4. How did professional institutions of medicine develop in the medieval and early modern periods?
5. In the medieval and early modern period, what were the differences between physicians' and patients' definitions of health and illness?
6. What were the sites for performing experiments and observation in early modern anatomy?
7. What influence did increased contact with America, Asia and Africa have on early modern European medicine?
8. What was the role of popular printed works in disseminating medical knowledge?

END OF PAPER

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Wednesday 7 June 13.30–16.30

Paper 66

Modern Medicine and Biomedical Sciences

*You should answer **three** questions. All questions carry equal weighting.*

Begin each answer on a separate sheet.

*Write legibly and on only **one** side of the paper.*

Answers must be tied up in separate bundles, marked 1, 2, 3, etc. according to the number of the question.

*Attach a completed coversheet to each bundle and complete a master coversheet listing all questions attempted. It is essential that you write your examination number and **not** your name on the coversheet and on **each** bundle.*

You may not start to read the questions printed on the subsequent pages of this question paper until instructed to do so by the invigilator.

1. 'In the nineteenth century, laboratory medicine was more dependent on hospital medicine than it was in opposition to it.' Assess this claim.
2. Why did the first women doctors need to justify their place in the profession, and what strategies did they use to do so?
3. Account for the rise by 1900 of surgery as a medical treatment of choice.
4. How, and to what extent, did new ways of visualizing human bodies and other organisms change medical diagnosis between 1848 and 1914?
5. How did the organization of penicillin production during World War II differ from the making of Salvarsan in the early twentieth century?
6. How, and to what extent, have genetic technologies changed medical practices around human reproduction?
7. In what ways was the medical treatment of women's bodies politicized in the second half of the twentieth century?
8. How did 'colonial medicine' become 'international health' and then 'global health'?

END OF PAPER