

CHEMICAL ENGINEERING TRIPOS PART IIB Course 2019-20 and Examination 2020

The structure of the examination is described below.

Topics in Group A and Group D are compulsory for all candidates.

Candidates are required to choose a total of **six** topics from Groups B and C, of which at least **two** must come from Group B and at least **two** must come from Group C. Further, at least two of the six modules chosen from Groups B and C should be assessed principally or entirely by written examination.

	<i>Paper</i>	<i>Module</i>	<i>Mode of assessment</i>
Group A	Compulsory Topics		
	A1	Compulsory topics	examination
	A2	Chemical product design	coursework
Group B	Advanced Chemical Engineering Topics		
	B1	Advanced transport processes	examination
	B2	Electrochemical engineering	examination
	B3	Pharmaceutical engineering	examination
	B4	Rheology and processing	examination
	B5	Computational fluid dynamics	coursework
	B6	Fluid mechanics and the environment	examination
Group C	Broadening Material Topics		
	C1	Optical microscopy	examination
	C3	Healthcare biotechnology	coursework
	C4	Entrepreneurship	coursework
	C5	Foreign language	coursework
	C6	Biosensors and bioelectronics	coursework
	C7	Bionanotechnology	examination + coursework
	C8	Biophysics	examination
Group D	Research Project		

Modules assessed by a combination of written examination and coursework

The normal weighting is that 75% of marks come from the written examination, and 25% of marks come from the coursework.

Arrangements for written examinations

Candidates will be allowed 10 minutes of reading time at the start of each examination paper. The approximate number of marks allocated to each part of a question will be indicated on the examination papers. Candidates will be provided with the *Chemical Engineering Tripos Data Book* for all examination papers.

Paper A1 will be a written examination of 2 hours' duration. It will contain **two** questions on Energy Technology and **one** question on Sustainability in Chemical Engineering. The rubric will read '*Answer all questions*'. All the questions will carry equal marks.

The written examination papers for Group B and Group C modules will each be of 1½ hours' duration. Each examination paper will contain two questions. The rubric will read '*Answer all questions*'. All the questions will carry equal marks.

Overall allocation of marks

The normal allocation of marks is 75 marks for module A1, 50 marks for module A2, 50 marks for each Group B module, 50 marks for each Group C module, and 150 marks for the Group D Project.

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Secretary of the Chemical Engineering and Biotechnology Syndicate

1 October 2019