

Summer Examinations 2017-18

Exam Code(s)	3BME1, 4BME1, 1EM1, 1OA1, 1OA9, 4BCT1, 4BMS2, 3BS9, 4BS2
Exam	Third Year & Fourth Year & HDip
Module Codes	CRYPTOGRAPHY CS402 & MA492 & MA545
External Examiner(s) Internal Examiner(s)	Prof T. Brady Prof G. Ellis*
Instructions	Attempt all questions. There are ten questions, each carrying 10 marks
Duration	2 hours
No. of Pages	3 pages (including this cover page)
Discipline	Mathematics
Requirements:	
Release in Exam Venue	Yes 🔽 No 🗌
Release to Library	Yes V No
Non-programmable calculator	Yes 🔽 No 🗌
Mathematical Tables	Yes □ No ✓

2.	The ciphertext Determine
3.	Describe: (a) (b) (c)
4.	
5 .	
6.	Answer either part (a) or part (b). (a) (b)

1. The ciphertext \dots Determine \dots

		3
7.	Answer either part (a) or part (b).	
	(a)(b) Carefully describe the A5/1 stream cipher which is used to encrypt the ontraffic in the GSM mobile phone networks in Europe and the US.	air
8.	Answer either part (a) or part (b). (a) (b)	
9.	Answer either part (a) or part (b).	
	(a) (b)	

10. Answer either part (a) or part (b).

(a) (b)