

Engineering Council examinations

Paper rubric May 2008



Code	Unit title	Number of questions	Materials needed for the exam
9107-101	Mathematical techniques for engineering applications	This paper contains ten questions. Answer as many parts as possible of all questions	Non-programmable calculator
9107-102	Properties of engineering materials	This paper contains six questions. Answer as many parts as possible of all questions	Non-programmable calculator
9107-103	The principles of engineering science	This paper contains eight questions. Answer as many parts as possible of all questions	Non-programmable calculator
9107-104	Engineering perspectives and skills	This paper contains seven questions. Answer as many parts as possible of all questions	Non-programmable calculator
9107-105	Mechanical and structural engineering	This paper contains seven questions. Answer as many parts as possible of all questions	Non-programmable calculator
9107-106	Thermodynamic, fluid and process engineering	This paper contains eight questions. Answer as many parts as possible of all questions	Non-programmable calculator
9107-107	Electrical and electronic engineering	This paper contains eight questions. Answer as many parts as possible of all questions	Non-programmable calculator
9107-108	Software and information systems engineering	This paper contains eight questions. Answer as many parts as possible of all questions	No specific requirements specified
9107-201	Applied thermodynamics	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-202	The analysis of heat and mass transfer	This paper contains eight questions in two Sections. Answer four questions, at least one from each section	Non-programmable calculator
9107-203	The analysis of the mechanics of fluids	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-204	Hydraulics and hydrology	This paper contains nine questions. Answer five questions	Non-programmable scientific calculator
9107-205	Separation processes in chemical engineering	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-206	Chemical thermodynamics, kinetics and reactor design	This paper contains nine questions in two Sections. Answer five questions, at least one from each section	Non-programmable calculator
9107-207	The internal environmental design of buildings	This paper contains eight questions. Answer four questions	Non-programmable calculator
9107-208	Properties of materials for engineering applications	This paper contains eight questions. Answer five questions	Non-programmable calculator

9107-209	Mechanics of solids	This paper contains ten questions. Answer five questions	Non-programmable calculator
9107-210	The analysis of engineering structures	This paper contains twelve questions in four Sections. Answer five questions, select three from Section A; the remaining two must be selected from Section B, C and D, but not more than one may be selected from any one of these Sections	Non-programmable calculator
9107-211	The design of engineering structures	This paper contains nine questions. Answer four questions, at least one from Section A, one from Section B and one from Section C	Candidates may use their own unmarked copies of 'BSI – PP7312 – Extracts from British Standards for Students of Structural Design'. Non-programmable calculator
9107-212	Design and operation of marine vehicles	This paper is not being set in May 2008	_____
9107-213	Geotechnical engineering	This paper contains thirteen questions. Answer five questions, at least one from Section A and at least two from Section B	Non-programmable calculator and a protractor
9107-214	Engineering surveying	This paper contains ten questions in three Sections. Answer five questions, two from Section A, two from Section B and one from Section C	Non-programmable calculator
9107-215	Analysis and design of electric circuits and fields	This paper contains ten questions. Answer five questions, at least one from Section A and one from Section B	Non-programmable calculator
9107-216	Electrical machines and drives	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-217	Electrical energy systems	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-218	Electronic systems engineering	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-219	Telecommunication systems engineering	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-220	Quality and reliability engineering	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-221	Analysis and design of manufacturing systems	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-222	The management of construction projects	This paper contains nine questions. Answer five questions	No specific requirements specified

9107-223	The management of engineering enterprises	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-224	Advanced mathematical techniques for engineering applications	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-225	Dynamics of mechanical systems	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-226	The technology of manufacturing processes	This paper contains eleven questions. Answer five questions	Non-programmable calculator
9107-227	Control systems engineering	This paper contains ten questions. Answer five questions	Non-programmable calculator
9107-228	Information systems engineering	This paper contains ten questions in two Sections. Answer four questions, at least two from Section A	Non-programmable calculator The Case Study for this examination will be available on-line 4 weeks prior to the examinations
9107-229	Software engineering	This paper contains nine questions. Answer four questions	Non-programmable calculator
9107-230	Software for embedded systems	This paper contains nine questions in two Sections. Answer four questions, at least two from Section A	Non-programmable calculator The Case Study for this examination will be available on-line 4 weeks prior to the examinations
9107-231	Computer systems engineering	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-300	Advanced engineering analysis	This paper contains twelve questions in four Sections. Answer four questions, with not more than two from any individual section	Non-programmable calculator
9107-301	The analysis of compressible fluid flow	This paper contains eight questions. Answer four questions	Non-programmable calculator
9107-302	Computational mechanics using finite element method	This paper contains six questions. Answer four questions, two from Section A and two from Section B	Non-programmable calculator
9107-303	Advanced telecommunications systems engineering	This paper contains nine questions. Answer five questions	Non-programmable calculator
9107-304	The technology of advanced manufacturing processes	This paper contains eight questions. Answer five questions	Non-programmable calculator
9107-305	High performance computer systems engineering	This paper contains ten questions. Answer five questions	Non-programmable calculator

* Please note that pens, pencils and rulers are required for all examinations