

FC Rad Onc (SA) Part II - General Oncology and Tumour Pathology - Paper I					
Question 1 & 2 (50%)					
50%	Applied Physics	Patient set up, positioning & imaging Ext. Beam planning and plan evaluation	Contouring Special techniques e.g. IMRT, VMAT, stereotaxis, protons, brachytherapy	Treatment techniques and quality assurance	
20%	Applied Radiobiology	Radiotherapy schedule modification Radiation in special circumstances e.g. pregnancy & retreatment	Radiation & drug interactions	Late effects of cancer treatment Biological optimization of plans	
30%	Applied molecular medicine and pharmacology	Molecular markers of cancer	Molecular Biology & cancer treatment	Principles of chemotherapy	Side effects of chemotherapy
Question 3 & 4 (50%)					
30%	Applied Tumour Pathology	Tumour pathology	Interpretation of reports		
30%	Applied Physiology	Nausea and vomiting Tumour lysis syndrome Bone metastases Neutropenia, neutropenic sepsis Endocrine	basic science	Clinical: causes & features	Management
30%	Palliative care	Pain and fatigue Bowel and urinary obstruction Communication Delirium Dyspnoea Supportive care and end of life care			
	Psycho-social aspects	Depression & anxiety in patients	Burnout in oncologists	Self-care	
10%	Ethics	Clinical ethics	Research Ethics		
	Evidence Based medicine	Levels of evidence	Statistics in practice e.g. p-value, null hypothesis, survival analysis, hazard ratios		