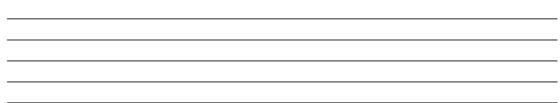
c) Taxol works by disrupting spindle activity. Explain how Taxol affects cancer cells.

[3 marks]



d) A more targeted drug needs to be developed.

Aurora A is an enzyme that phosphorylates the protein TACC3. TACC3 then binds to microtubules which hold spindle fibres together. Aurora A is found to be amplified in tumour cells.

Suggest how scientists could develop a cancer drug which targets Aurora A.

[2 marks] Review from Notesale.co.uk preview from 7 of 29 page 7 of 29

Preview from Notesale.co.uk preview from 17 of 29 preview page

END OF QUESTIONS

Preview from Notesale.co.uk preview from 19 of 29 preview page

SECTION B: General Essay Mark Scheme Guide

Marks	Description	Assessment Guidance
High 24-25 Medium 23 Low 21-22	Extended abstract Generalised beyond specific context	 Whole essay flows/is interlinked with points all contributing to the theme Clear links between at least four different topics (these can be different whole specification points, but do not all have to be from different units). All topics relate to the theme of the question. Biology is detailed and comprehensive A-level content (not GCSE level) Essay uses appropriate terminology from the specification, is very well written and always clearly explained. No significant errors in fundamental biological knowledge that make any explanation incorrect No irrelevant material (several lines that do not link to the title) in any paragraph. For 24+ marks in the band, the answer shows evidence of wider reading by adding information that is relevant to the question but not required by the specification. Must be at least of the specification in formation.
High 19-20 Medium 18 Low 16-17	Relational Integrated into a whole	 explained 20 bick Us fundamentally correct A-level content (not GCSE) Contains some points which are detailed, though there may be some which are less well developed Appropriate use of terminology from the specification Maybe one significant error (fundamental incorrect biological knowledge) and, or one irrelevant topic which
High 14-15 Medium 13 Low 11-12	Multistructural Several aspects covered but they are unrelated	 detracts from the overall quality of the answer. Essay contains more than two suitable topics Topics are not related to each other, and links are not made to the theme of the question. Biology is usually correct A-level content, though it lacks detail. Mostly clearly explained and generally uses appropriate terminology from the specification More than one significant error (fundamental incorrect biological knowledge) and, or more than one irrelevant topic.