2.1.1 Cell Structure Markscheme

Out of 43 marks

**Section A – multiple choice**

From Kerboodle objective test and sample paper

1. B
2. B
3. A
4. D
5. B

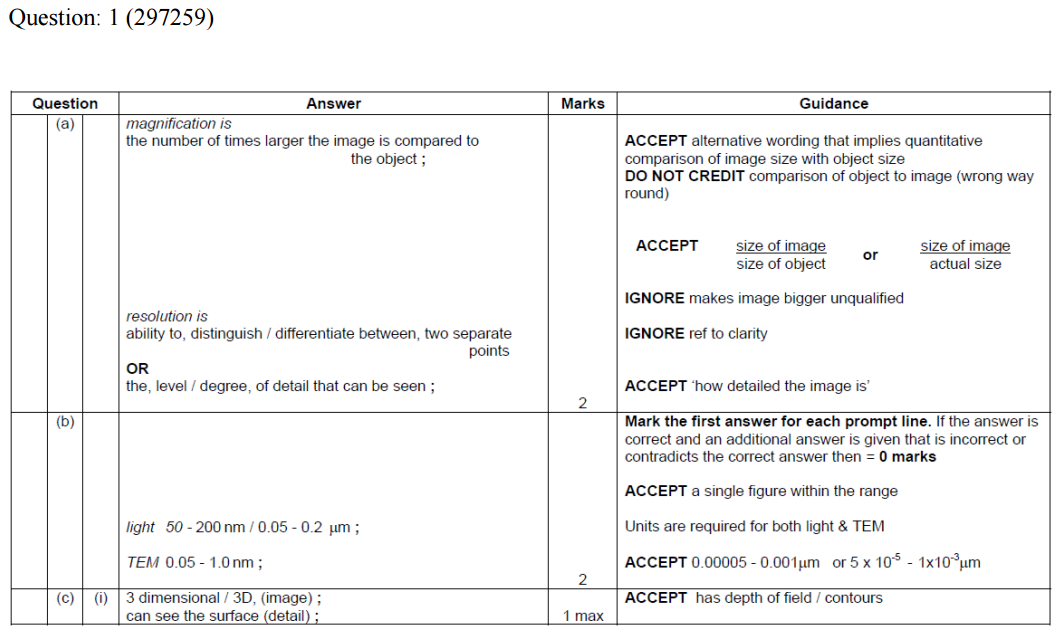
**Section B – short answer**

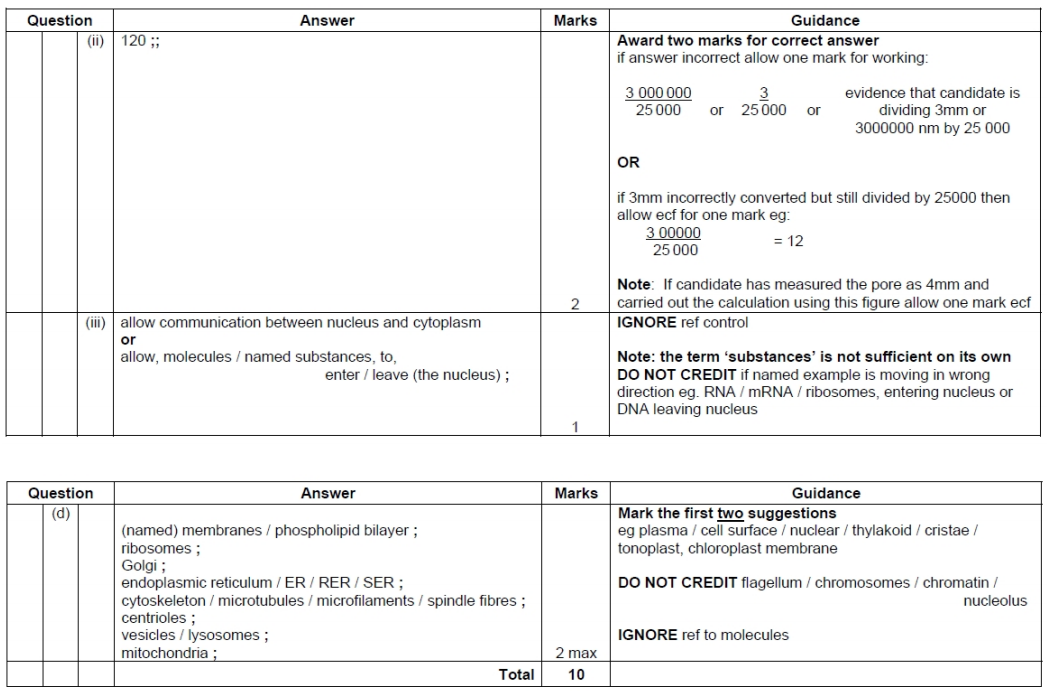
From Kerboodle Exam-style questions

| **Question number** | **Answer** | **Marks** | **Guidance** |
| --- | --- | --- | --- |
| **1 a** | Cytoskeleton ✓ | B1 |  |
| **1 b** | (Stage) micrometer ✓ | B1 |  |
| **1 c** | Eyepiece lens ✓  Objective lens ✓ | B1  B1 |  |
| **1 d** | Nucleolus ✓ | B1 | Must be spelt correctly |
| **1 e** | Ultrastructure ✓ | B1 |  |
| **2 a i** | To stain cell / provide contrast / show nucleus ✓ | B1 |  |
| **2 a ii** | To avoid trapping air bubbles ✓ | B1 |  |
| **2 a iii** | To see largest area of slide / to focus more easily using coarse focus ✓ | B1 |  |
| **2 b** | Bacteria very small / only visible at high power / grouped in clusters ✓  Plant cells angular or rigid in shape (due to / ref. cell walls) ✓ | B1  B1 | Reference to chloroplasts does not gain credit because cereal grains do not contain chloroplasts. |

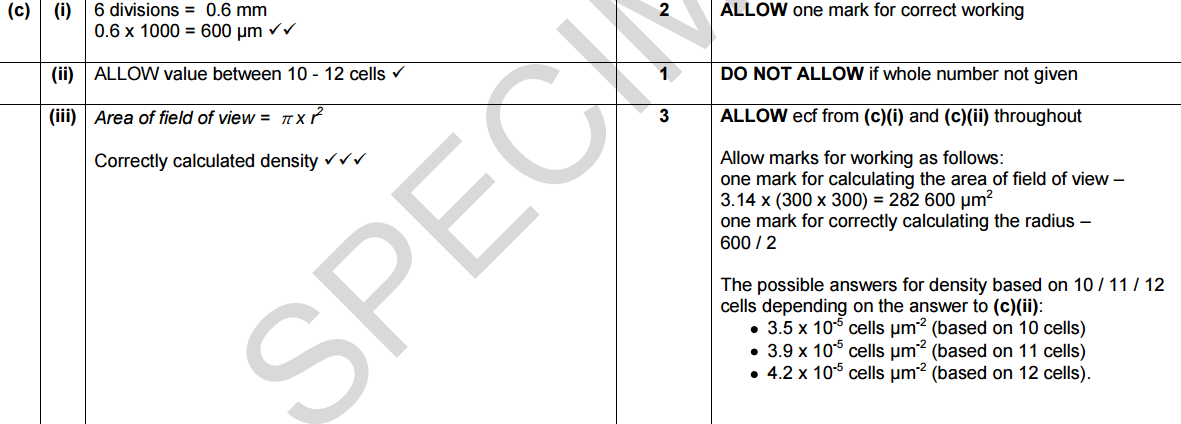
**Section C – long answer questions**

From Exam creator



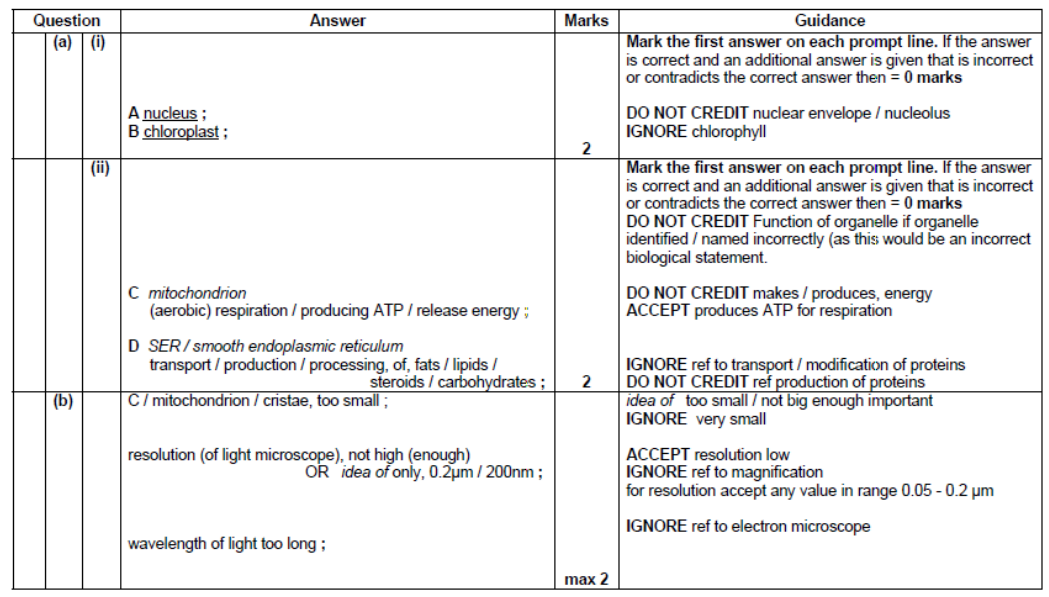


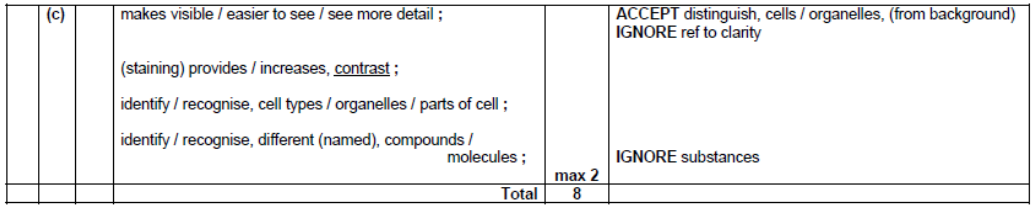
From Biology B H422/03 Practical skills in biology sample paper



Accept answer in cells per **mm**2?

Question 2





Question 3

