### Cell Biology Mark Scheme

#### 1. B

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#### 1. (a) (i) Plant, bacterial and fungal 1 All three required

(ii) Bacteria(l) 1 Extra answers negate

(iii) Ribosome - (site of involved in) protein synthesis
      Mitochondria - (site of involved in) energy or ATP production/aerobic respiration 1

(b) Y axis scale and label, including units 1
      Bars correctly plotted 1
      Tops of bars clearly shown Label copied exactly

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#### 1. (a) 1. Mitochondrion: (site of) aerobic respiration or releases energy/produces ATP.

2. Cytoplasm: (site of) chemical reactions.

3. Ribosome(s): (site of) protein synthesis.

4. Cell membrane: controls or allows entry/exit of materials/substances/molecules or controls what enters/exits.
   Any 2 for 1 mark each 2 Acceptable: additional correct information.

Not acceptable:
- (site of) all chemical reactions
- Specific example of a reaction eg fermentation.

Not acceptable: ‘things’

(b) 100 1