- Mark Scheme /

| Question | Answer   | Marks | AO Element | Notes   | Guidance |
|----------|--|-------|------------|---|----------|
| 1(a)(i)  | Т;   | 1     |            |   |          |
| 1(a)(ii) | C and G;   | 1     |            |   |          |
| 2        | nutrients elements enzyme products of digestion    Description   C, H, O, N (S)   Pepsin amino acids;   Pepsin | 4     |            | elements for protein and fat for 1 mark enzyme and products for protein for 1 mark enzyme and products for fat for 1 mark enzyme for lactose for 1 mark |          |
| 3        | carbon, hydrogen, oxygen ;<br>nitrogen ;   | 2     |            |   |          |

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|----------|-------------------------------------|-------|------------|-------|----------|
| 4        | ТА                                  | 1     |            |       |          |
|          | АТ                                  |       |            |       |          |
|          | A T                                 |       |            |       |          |
|          | ТА                                  |       |            |       |          |
|          | G C                                 |       |            |       |          |
|          | C G                                 |       |            |       |          |
|          | G C                                 |       |            |       |          |
|          | ТА                                  |       |            |       |          |
|          | GC                                  |       |            |       |          |
|          |                                     |       |            |       |          |
|          |                                     |       |            |       |          |
| 5        | large molecule smaller molecule     | 4     |            |       |          |
|          | cellulose amino acids               |       |            |       |          |
|          | glycogen and starch glucose protein |       |            |       |          |
|          |                                     |       |            |       |          |
|          | ,,,,                                |       |            |       |          |

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| Answer   | Marks  | AO Element   | Notes  | Guidance   |
|--|--|--|--|--|
| any two from carbohydrates: cellulose;                 | 4  |  |  |  |
| for cell walls ;                                       |  |  |  |  |
| starch;  |  |  |  |  |
| for energy/respiration;                                |  |  |  |  |
| to attract insects to flowers / nectar / fruits ;      |  |  |  |  |
| AVP;   |  |  |  |  |
| any two from amino acids:<br>to make (named) proteins; |  |  |  |  |
| or enzymes ;   |  |  |  |  |
| for growth ;   |  |  |  |  |
| AVP;   |  |  |  |  |
| CHO;   | 2  |  |  |  |
| N;   |  |  |  |  |
| D  | 1  |  |  |  |
|  | any two from carbohydrates: cellulose; for cell walls; starch; for energy/respiration; to attract insects to flowers / nectar / fruits; AVP; any two from amino acids: to make (named) proteins; or enzymes; for growth; AVP;  CHO; N; | any two from carbohydrates: cellulose; for cell walls; starch; for energy/respiration; to attract insects to flowers / nectar / fruits; AVP; any two from amino acids: to make (named) proteins; or enzymes; for growth; AVP;  CHO; N; | any two from carbohydrates: cellulose; for cell walls; starch; for energy/respiration; to attract insects to flowers / nectar / fruits; AVP; any two from amino acids: to make (named) proteins; or enzymes; for growth; AVP;  CHO; N; | any two from carbohydrates: cellulose; for cell walls; starch; for energy/respiration; to attract insects to flowers / nectar / fruits; AVP; any two from amino acids: to make (named) proteins; or enzymes; for growth; AVP;  C H O; N; |

[Total: 20]