Block 2A Mark scheme

1. D

2. B

3. D

4. D

5. B

6. B

7. 





8.





9.





10. (i) ***Max 1 if referring to insulin receptors***

**1** unable to produce (enough) insulin / do not secrete insulin /
produces ineffective insulin;

**DO NOT CREDIT** excrete’ as incorrect

**2** insulin-producing cells / beta cells / islets of Langerhans,
not functioning (correctly) / damaged / destroyed / attacked;

**ALLOW** lack of beta cells / ref to b cells

**DO NOT CREDIT** alpha cells / B cells (if lymphocytes implied)

**3** by (body’s own) immune system / by (body’s own) antibodies /
auto-immune disease;

**CREDIT** description

**4** (idea of) family history / genetic / hereditary;

**5** (condition can be) triggered by, virus / environmental factor;

e.g.

• shock

• drugs side effect

• (pancreatic) cancer

• infection / disease

2 max

(ii) ***Mark the first 3 responses only***

**1** increasing age / older / ageing / more prevalent over 40;

**DO NOT CREDIT** age without ‘older’ implication

**2** (idea of) family history / genetic / hereditary;

**3** (more common in) males;

**4** (more common in)
some ethnic groups / African / Afro-Caribbean / Asian / Hispanic /
Oceanic;

**5** obese / overweight / fat around abdomen;

**CREDIT** ‘apple shaped’

**6** high / frequent, intake of, sugar / highly processed food / high
GI food;

**IGNORE** ‘poor diet’ / ‘bad diet’ / ‘unhealthy diet’
**IGNORE** fat / carbohydrate, in diet

**7** lack of physical activity / sedentary lifestyle;

**8** high blood pressure;

**CREDIT** history of, heart attack / stroke

**9** excessive alcohol intake;

idea of too much is needed

3 max

(iii)

