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**A-level**

UACE Biology 2001 paper 1

Section A

|  |  |  |
| --- | --- | --- |
| NUMBER | Choice | Justification |
| 1 | D | Fibrinogen is a soluble fibrous protein found in blood  used in blood clotting. |
| 2 | A |  |
| 3 | B |  |
| 4 | D |  |
| 5 | D | Length of the wing is variable |
| 6 | D |  |
| 7 | D | ¼ of the seed (tt) failed to develop. The heterozygous if 2/3 of 600 = 400 |
| 8 | C |  |
| 9 | C |  |
| 10 | B |  |
| 11 | D |  |
| 12 | B |  |
| 13 | C |  |
| 14 | A |  |
| 15 | C |  |
| 16 | D |  |
| 17 | C | Corpus luteum develop after ovulation to produce progesterone. |
| 18 | A | Parent genotype ttbb x TtBb  Gamete tb TB Tb tB tb  Offspring genotype TtBb Ttbb ttBb ttbb  Offspring phenotype 1tall 1Tall 1 short 1short  Blue white blue white |
| 19 |  |  |
| 20 | A | Iron bacteria are chemosynthetic bacteria |
| 21 | C |  |
| 22 | B |  |
| 23 | D |  |
| 24 | D |  |
| 25 | A | Thyloid hormone increase metabolic rae |
| 26 | D |  |
| 27 | B | Pressure potential is zero, while osmotic potential is not zero |
| 28 | B | Endoplasmic reticulum is used to transport materials in a cell. |
| 29 | C |  |
| 30 | C | Acid rain is caused by acidic gases such as sulphur dioxide and nitrogen dioxide |
| 31 | B | Light opens the stomata, which carry away saturated air with moisture increasing a diffusion gradient for water vapour. |
| 32 | A | Magnesium is used to manufacture chlorophyll |
| 33 | B | ATP is produced by cyclic and non cyclic photophosphorylation during the light stage of photosynthesis |
| 34 | D | Squamus epithelium is thin to reduce diffussion gradient |
| 35 | B |  |
| 36 | C | A large surface area increases the rate of diffusion |
| 37 | C |  |
| 38 | B | Whhen milk is given growth increases |
| 39 | B | Not all bacteria have flagella |
| 40 | C | The more hosts the more chance of survival |