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| **P1.1 Factual Knowledge Tests – Pass Mark = 80%** |
| **Infra- red radiation; (2)**  Black matt objects are the best at absorbing and emitting IR  Silver/Shiny objects are the best at reflecting and worst emitters of IR |
| **Describe the process of conduction; (3)**  Particles gain kinetic energy  Particles vibrate more  Particles collide and transfer kinetic energy. |
| **Explain why metals are good conductors (2)**  Metals have free electrons which are free to move and when a metal is heated these electrons have more kinetic energy, move faster and transfer energy. |
| **Describe the process of convection (4)**  Particles gain kinetic energy  Particles spacing increases  Area of gas/liquid becomes less dense  Area of gas/liquid rises |
| **Describe the process of evaporation; (3)**  Particles at the **surface of a liquid** with **enough kinetic energy** can **break the intermolecular forces** and escape the surface. |
| **Explain how evaporation causes cooling; (3)**  The highest energy particles are those that can break intermolecular forces and escape.  The average energy decreases.  The temperature of the liquid therefore goes down. |
| **State 4 factors which increase the rate of evaporation; (4)**  Increase surface area – more particles at the surface  Increase temperature – particles have more kinetic energy  Increase wind speed – removes evaporated particles – reduces condensation  Decrease humidity – drier air means less condensation |
| **Describe the process of condensation; (4)**  Water vapour particles hit a cold surface.  Water particles lose kinetic energy.  Spacing of particles decreases.  Water vapour turns from gas to liquid. |

**Score /25 = %**

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| P1.1 Factual Knowledge Tests |
| Infra- red radiation; (2) |
| Describe the process of conduction; (3) |
| Describe the process of convection (4) |
| Describe the process of evaporation; (3) |
| Explain how evaporation causes cooling; (3) |
| State 4 factors which increase the rate of evaporation; (4) |
| Describe the process of condensation; (3) |

**EBI – In the space below write out 3 of the ones you got incorrect so that you learn these for your resit.**