

THE HUMAN ENDOCRINE SYSTEM

- **Hormone** – A hormone is a chemical secreted by an endocrine _____ and carried in the _____ to target organs where it performs a specific _____.
- **Functions of Hormones** – The varying actions performed by hormones may be fast-acting (e.g. Adrenaline is a hormone that _____ up the heart and breathing rates when we get a fright), or may be slow-acting (e.g. Human Growth Hormone regulates the many body processes involved in _____).

| ENDOCRINE GLAND | HORMONE SECRETED | TARGET ORGAN | EFFECT ON BODY |
|------------------------------------|--|---------------------|-----------------------|
| Pituitary | human growth hormone | all cells | |
| | antidiuretic hormone | kidneys | |
| Thyroid | thyroxine | all cells | |
| Parathyroid | parathyroid hormone | bones, kidneys | |
| Adrenal | adrenaline ('fight or flight' hormone) | most cells | |
| Pancreas | insulin | all cells | |
| | glucagon | all cells | |
| Gonads (Testes and Ovaries) | oestrogen | sex organs | |
| | progesterone | sex organs | |
| | testosterone | sex organs, muscle | |