



Contents

Preface	vii
Acknowledgements	ix
Online student resources	xi
Help for faculty	xiii
Common prefixes, suffixes and roots	xv
Key	xviii

Section 1 The body and its constituents 1

1 Anatomy and organisation of the body	1
2 Physiological chemistry and processes	27
3 Cells and tissues	41

Section 2 Communication 61

4 The blood	61
5 The cardiovascular system	81
6 The lymphatic system	141
7 The nervous system	153
8 The special senses	207
9 The endocrine system	233

Section 3 Intake of raw materials and elimination of waste 261

10 The respiratory system	261
11 Introduction to nutrition	297
12 The digestive system	311
13 The urinary system	369

Section 4 Protection and survival 393

14 The skin	393
15 Resistance and immunity	407
16 The musculoskeletal system	421
17 Introduction to genetics	475
18 The reproductive systems	487

Answers to self-assessment questions	513
Glossary	525
Normal values	533
Bibliography	535
Index	537