

# Contents

Series editor foreword . . . . .	v
Prefaces . . . . .	vii
Acknowledgements . . . . .	viii
<b>1. Introduction to the gastrointestinal system . . . . .</b>	<b>1</b>
Anatomical overview . . . . .	1
Functions of the gastrointestinal tract . . . . .	1
Food groups . . . . .	2
Development . . . . .	6
<b>2. The upper gastrointestinal tract . . . . .</b>	<b>9</b>
Overview . . . . .	9
Functions and physiology . . . . .	9
The mouth, oral cavity and oropharynx . . . . .	15
Disorders of the mouth and oropharynx . . . . .	21
The oesophagus . . . . .	23
Disorders of the oesophagus . . . . .	25
<b>3. The stomach . . . . .</b>	<b>31</b>
Overview . . . . .	31
Anatomy . . . . .	31
Embryology and development . . . . .	34
Histology . . . . .	35
Functions and physiology . . . . .	37
Disorders of the stomach . . . . .	45
<b>4. The small intestine . . . . .</b>	<b>51</b>
Overview . . . . .	51
Anatomy . . . . .	51
Embryology and development . . . . .	54
Histology . . . . .	54
Physiology . . . . .	58
Digestion and absorption . . . . .	62
The flora of the small intestine . . . . .	68
Disorders of the small intestine . . . . .	68
<b>5. The large intestine . . . . .</b>	<b>73</b>
Overview . . . . .	73
Anatomy . . . . .	73
Embryology and development . . . . .	78
Histology . . . . .	78
The flora of the large intestine . . . . .	79
Functions and physiology . . . . .	79
Pharmacology of intestinal motility . . . . .	81
Disorders of the large intestine . . . . .	83
<b>6. The liver . . . . .</b>	<b>99</b>
Overview . . . . .	99
Anatomy . . . . .	99
Embryology and development . . . . .	102
Histology . . . . .	102
Functions and physiology . . . . .	105
Pathological manifestations of liver damage . . . . .	113
Systemic and organic manifestations of liver damage . . . . .	115
Disorders of the liver . . . . .	122
<b>7. The pancreas and biliary tract . . . . .</b>	<b>135</b>
The pancreas . . . . .	135
Disorders of the exocrine pancreas . . . . .	142
The biliary system . . . . .	146
Disorders of the gallbladder and biliary tract . . . . .	149
<b>8. Clinical assessment of gastrointestinal disease . . . . .</b>	<b>151</b>
Common presentations of gastrointestinal disease . . . . .	151
Dysphagia . . . . .	151
Dyspepsia . . . . .	151
Nausea and vomiting . . . . .	152
Abdominal distension . . . . .	152
Abdominal pain . . . . .	153
Weight loss . . . . .	156
Gastrointestinal (GI) bleeding . . . . .	156
Anaemia . . . . .	156
Jaundice . . . . .	157
Diarrhoea and constipation . . . . .	158

## Contents

Anal mass . . . . .	158
Faecal incontinence . . . . .	158
History and examination . . . . .	158
Introduction . . . . .	158
History-taking . . . . .	158
The structure of a history . . . . .	159
Gastrointestinal system examination . . . . .	163
Investigations and imaging . . . . .	170
Overview . . . . .	170
Routine haematological and biochemical investigations . . . . .	170
Endoscopic examinations . . . . .	174
Imaging of the gastrointestinal system . . . . .	175
<b>Single best answer (SBA) questions . . . . .</b>	<b>179</b>
<b>Extended-matching questions (EMQs) . . . . .</b>	<b>183</b>
<b>SBA answers . . . . .</b>	<b>187</b>
<b>EMQ answers . . . . .</b>	<b>193</b>
<b>Glossary . . . . .</b>	<b>195</b>
<b>Index . . . . .</b>	<b>197</b>