

DO NOT REMOVE1982-83PY2/14 GENERAL AND ELEMENTARY MAMMALIAN PHYSIOLOGY MICHAELMAS TERM 7.10.82-15.12.82LECTURES Tuesdays 9-10 am (Room 43H) 2-3 pm (Room 97T) PRACTICALS Tuesdays 10-1 pm and 3-5 pm in Physiology DepartmentTUESDAY 12.10.82

AM	Introduction to Physiology	GD	AM	Use of microscope to observe living and stained tissues	PMP
PM	M.C.Q.	RWST	PM	Staining of sections	PMP

TUESDAY 19.10.82

AM	Circulation 1 - structure of blood vessels; principles of haemodynamics	GFB	AM	Effect of temperature and drugs on the frog heart	AEH/PMP
PM	Circulation 2 - structure of heart; cardiac cycle	GFB	PM	Dissection of sheep heart	AEH/PMP

TUESDAY 26.10.82

AM	Circulation 3 - venous return and its regulation; cardiac output and its regulation	GFB	AM	Pulse and blood pressure in human and the effect of exercise	GFB/PMP
PM	Circulation 4 - control of systemic blood pressure; cardio-vascular reflexes	GFB	PM	Harvey film	GFB

PRACTICAL NOTEBOOKS TO BE HANDED IN BY THURSDAY 28th OCTOBERTUESDAY 2.11.82

AM	Circulation 5 - formation of tissue fluid and lymph; Starling's Hypothesis	GFB	AM	Red cell count and haematocrit in human; red cell diameter	PMP
PM	Circulation 6 - Life history of red blood cells	RWST	PM	Estimation of haemoglobin	PMP

TUESDAY 9.11.82

AM	Immunology 1 - early history of immunology; types of immune reaction	GD	AM	Demonstration on circulation Tutorial on cardio-vascular physiology	GFB
PM	Circulation 7 - Life history of white cells	RWST	PM	Demonstration on circulation Tutorial on cardio-vascular physiology	GFB

TUESDAY 16.11.82

AM	Immunology 2 - cellular basis of immune reaction	GD	AM	Types of white cell; differential count; total white cell count	PMP
PM	Immunology 3 - structure of antibodies	GD	PM	Introduction to blood groups (lecture and practical)	GD

PRACTICAL NOTEBOOKS TO BE HANDED IN BY THURSDAY 18th NOVEMBER

TUESDAY 23.11.82

AM	Respiration 1 - structure of lung and thoracic cage	GD	AM	Recording of human respiration and measurement of lung volumes	GD/PMP
PM	Respiration 2 - carriage of gases	GD	PM	Histology of trachea and lungs	PMP

TUESDAY 30.11.82

AM	Respiration 3 - neural and chemical control of respiration	GD	AM	Haldane blood gas estimation; oxygen capacity	GFB/PMP
PM	Cell biology 1 - subcellular organelles	GFB	PM	Measurement of percentage saturation	GFB/PMP

TUESDAY 7.12.82

AM	Cell biology 2 - permeability of plasma membranes	GFB	AM	Analysis of respiratory gases; atmospheric and expired air	GFB/PMP
PM	Renal physiology 1 - filtration processes in the glomerulus	GFB	PM	Analysis of alveolar air; use of automatic analyser	GFB/PMP

PRACTICAL NOTEBOOKS TO BE HANDED IN BY THURSDAY 9th DECEMBER

TUESDAY 14.12.82

AM	Renal physiology 2 - reabsorption in renal tubule	GFB	AM	Urine volume; specific gravity of urine; creatinine clearance	GFB/PMP
PM	Renal physiology 3 - role of kidney in homeostasis	GFB	PM	Histology of the kidney	GFB/PMP