

Online Viva background to questions and imaging:

Students have been advised that the ORAL viva will include questions from each course:

UNI SA COURSE	Incorporation
Professional Issues	Oral viva,
Physics	Oral Viva Image interp
Abdominal Sonography	Oral Viva Image interp
Small parts and Breast	Oral Viva Image interp
MSK	Oral Viva Image interp
Vascular	Oral Viva Image interp
Obs and Gyne	Oral Viva Image interp

Sonographer Competency standards	Professional Ethical Practitioner
	Lifelong Learner
	Safety and Risk Manager
	Communicator and Collaborator
	Sonographic practitioner
Sonographer Knowledge	
	Abdomen
	Obstetrics and Gynaecology
	Superficial Parts
	Breast
	Paediatric
	Musculoskeletal
	Vascular

Table 1 – The Professional Competency Framework for sonographers¹

Competency OSCE

Sonographer Competency standards	Professional Ethical Practitioner
	Lifelong Learner
	Safety and Risk Manager
	Communicator and Collaborator
	Sonographic practitioner
Sonographer Knowledge	
	Abdomen

¹ Edwards, C, Thoirs, K, Osborne, B, Slade, D, McDonald, S, Lombardo, P, ... Childs, J 2022, 'Australian sonographer competency—A new framework', *Sonography*, vol. 9, no. 3, pp. 108–115.
<https://www.asar.com.au/public/90/files/Professional%20Competency%20Framework%20for%20Sonographers.pdf>

	Obstetrics and Gynaecology
	Superficial Parts
	Breast
	Paediatric
	Musculoskeletal
	Vascular

Table Error! Main Document Only. – The Professional Competency Framework for sonographersⁱⁱ

Slide reference	What
	Unit 1
Each viva presentation	<i>Professional and ethical practitioner</i>
	Unit 2
Each viva presentation	<i>Lifelong learner</i>
	Unit 3
Slide 2 each Viva Presentation	<i>Safety and Risk Manager -</i>
	Unit 4
Each Viva presentation	<i>Communicator</i>
	Unit 5
Each viva presentation	<i>Sonographic Practitioner</i>
	Unit 6 Abdomen
Slide 3 viva 1 Slide 8 viva 2 Slide 4 Viva 5 Slide 3 viva 6 Slide 2 viva 9 Slide 2 viva 11 Slide 4 viva 13 Slide 3 Viva 14 Slide 3 viva 15	Liver + vessels
Slide 3 viva 3 Slide 3 viva 6 Slide 3 viva 8 Slide 3 viva 14	Biliary system
Slide 5 viva 2 Slide 5 viva 4 Slide 5 viva 12 Slide 4 viva 14 Slide 7 Viva 15	Urinary system
	Renal vessels
Slide 8 viva 2 Slide 7 Viva 4 Slide 4 Viva 5	Spleen and vessels
Slide 3 viva 6 Slide 3 viva 8	Pancreas
Slide 8 viva 2 Slide 5 viva 6	Male pelvis and prostate

Slide 4 viva 11 Slide 6 Viva 15	
Slide 2 Viva 3 Slide 8 Viva 9 Slide 5 Viva 15	Major vessels and haemodynamics
Slide 8 viva 2	Retroperitoneum
Slide 7 viva 14	GI tract
Slide 3 viva 14 Slide 7 Viva 15	Paediatric abdomen • appendix • intussusception
Slide 8 viva 2	Procedure techniques
Slide 8 viva 2 Slide 3 viva 9 Slide 2 viva 11 Slide 4 viva 11 Slide 4 viva 13	Transducer and patient manoeuvres
Slide 5 Viva 4	Clinical indicators pathology
Slide 7 viva 1 Slide 8 Viva 12	Basic female pelvis
Slide 8 viva 9 Slide 2 viva 11 Slide 4 viva 13	Anatomical variants
Slide 3 viva 1 Slide 8 viva 2 SLIDE 5 Viva 4 Slide 2 viva 11 Slide 4 viva 11 Slide 4 viva 13	Patient preparation
	Unit 7 - Breast
Slide 3 viva 4 Slide 5 Viva 5 Slide 5 Viva 9 Slide 3 viva 12 Slide 5 viva 13	Male and female
Slide 5 viva 13	Probes a
	Post procedure
	Unit 9 Musculoskeletal
Slide 4 viva 6 Slide 6 viva 11 Slide 7 Viva 12 Slide 8 Viva 14	examination techniques
Slide 4 viva 6 Slide 6 viva 11 Slide 8 Viva 14	Movement for dynamic imaging
Slide 5 viva 1	Normal and abnormal sonographic appearances

Slide 4 viva 2 Slide 4 viva 6 Slide 6 viva 11 Slide 7 Viva 12 Slide 8 viva 14	• Muscles • Joints • Tendons • Nerves
	Unit 10 Obs and Gynae
Slide 3 viva 10 Slide 5 viva 11 Slide 3 Viva 13	Fetal and paediatric anatomy physiology and embryology
Slide 3 Viva 2 Slide 5 viva 3 Slide 6 viva 4 Slide 3 Viva 5 Slide 7 Viva 5 Slide 3 Viva 10 Slide 5 viva 11 Slide 8 Viva 12 Slide 3 viva 13	Fetal development
Slide 5 viva 3 Slide 3 viva 5 Slide 7 Viva 5 Slide 3 viva 10 Slide 5 viva 11 Slide 4 viva 15	Pathophysiology and sonographic appearance
Slide 7 viva 1 Slide 6 viva 4 Slide 3 viva 9 Slide 3 Viva 10 Slide 5 viva 11 Slide 6 Viva 12 Slide 8 viva 12 Slide 3 viva 13	Examination techniques
Slide 3 Viva 5 Slide 7 Viva 5 Slide 7 Viva 9 Slide 6 viva 12	Maternal physiology and pathology relating to fertility, pregnancy and gynaecology
Slide 6 viva3 Slide 8 Viva 4 Slide 7 Viva 5	Menstrual cycle
Slide 6 viva 3 Slide 7 Viva 5 Slide 6 Viva 6 Slide 7 viva 9 Slide 6 viva 10 Slide 8 viva 12 Slide 7 Viva 13 Slide 5 Viva 14 Slide 4 viva 15	Clinical indicators for gynae examination
	Haemodynamics specific to pregnancy

Slide 5 viva 3 Slide 5 Viva 10	Safe practice of ultrasound in pregnancy including Doppler
Slide 5 viva 14 Slide 4 viva 15	Physiologic tests relating to pregnancy and gynae
	Nasal bone in first trimester
	Polycystic ovaries
	Cervical incompetence
Slide 3 viva 10 Slide 3 viva 13	Fetal heart scanning
	Multiple gestation surveillance
Slide 6 Viva 10 Slide 5 viva 14	<i>Patient prep gynae ta and tv scan</i>
Slide 6 viva 10 Slide 5 viva 15	<i>Consent</i>
	Unit 12 Superficial Parts
Slide 3 viva 4 Slide 5 viva 9	<i>Breast</i>
Slide 8 Viva 5 Slide 8 Vva 13	<i>Scrotum</i>
Slide 8 Viva 3	<i>Eye</i>
Slide 6 Viva 2 Side 4 viva 9 Slide 4 viva 10	<i>Anterior neck</i>
Slide 6 viva II	<i>Salivary gland</i>
Slide 4 viva 1	
Slide 6 Viva 2 Slide 4 viva 10	<i>Classification system</i>
Slide 5 viva 1	<i>LUMPS AND BUMPS</i>
	Unit 13 Vascular
	<i>Vascular</i>
Slide 6 viva 1 Slide 8 viva 1 Slide 7 viva 2 Slide 7 viva 3 Slide 4 viva 4 Slide 6 viva 5 Slide 6 Viva 6 Slide 6 viva 9 Slide 5 viva 10 Slide 4 Viva 12 Slide 6 Viva 13 Slide 6 viva 14	Vascular • Anatomy • Physiology • Embryology
Slide 8 viva 1 Slide 7 viva 2 Slide 4 viva 4 Slide 6 viva 5 Slide 6 Viva 6 Slide 6 viva 9	Hemodynamics

Slide 5 viva 10 Slide 4 Viva 11 Slide 6 viva 14	
Slide 8 viva 1 Slide 7 viva 2 Slide 4 viva 4 Slide 6 viva 5 Slide 6 Viva 6 Slide 6 Viva 9 Slide 6 viva 14	Doppler instrumentation
Slide 7 viva 3 Slide 4 viva 9 Slide 6 viva 13	Clinical indicator for sonographic examinations
	Variations of anatomy
Slide 8 viva 1 Slide 5 viva 10	Measurements of haemodynamics and assessments
Slide5 viva 11	Terminology for describing thrombus
Slide 6 viva 1 Slide 7 viva 3 Slide 5 viva 11 Slide 6 Viva 13	DVT examination
Slide 6 viva 5 Slide 6 Viva 6 Slide 5 viva 10 Slide 4 Viva 12 Slide 6 viva 14	Carotid examination
Slide 6 Viva 6	Surgical techniques
Slide 7 viva 6	AAA assessments