UNIVERSITY OF MALTA Faculty of Health Sciences

Academic Proficiency Test (Sample Questions)

Academic Proficiency Test for the assessment of applicants who applied to join the Preparatory Course for the Bachelor of Science (Honours) in Nursing course in terms of the 'adult learners clause'.

	the 'adult learners clause'.		
Section A. Basic Mathematical Skills			
1.	If the price of a litre of petrol increases from 3.20 to 3.68, what perce	nt did it increase?	
a.	15%		
b.	10%		
c.	115%		
d.	12%		
a. b. c.	If 5 cost 2 euros, how much will 15 apples cost? 8 euros 30 euros 10 euros 6 euros		
3.	If 4 people can stain a deck in 2 days, how many people would be requdeck in only 1 day?	uired to stain the	
a.	8		
b.		Ħ	
c.	4	\Box	
d.	12		

4.	How much time is there between 7.45am today and 3.15pm tomorrow	?
a.	7 ½ hours	
b.	30 ½ hours	
c.	31 ½ hours	\Box
d.	32 ½ hours	
г	If a gos tank can hold 20 litros, how many litros does it contain when it i	a throatifthe full?
5.	If a gas tank can hold 30 litres, how many litres does it contain when it i	s three-fifths full?
a.	15	
b.	12	
c.	24	
d.	18	
6.	How long will it take to reach a town 250 kilometres away if you drive 5 hour?	0 kilometres per
a.	4 hours	
b.	5 hours	
c.	10 hours	
d.	6 hours	
7.	Tina bought a scarf for 16.65 euros. She gave the clerk 20 euros. How men and the scart head?	nuch change
	should she get back?	
a.	4.35 euros	
b.	3.45 euros	
c.	3.35 euros	
d.	3.25 euros	

8.	Paul bought a 12 pack of soda for 5.40 euros. How much did he pay per	can of soda?
a. b. c. d.	0.45 euro 0.54 euro 0.40 euro 2.22 euro	
a. b. c.	If 40 is divided by .08, the result is 5000 500 50 50	
a. b. c.	12 81 128 64	

Section B. Basic English

1.	Personal accounts of Amelia suggest that she was a women of courage, in and she was intelligent. Which group of words would make a better revision sentence?	
a.	Courage, integrity, and intelligent.	
b.	Courage, integrity, and she was intelligent.	
	Courage, integrity, and intelligence.	
d.	Courageness, integrity, and she was intelligent.	
2.	Select the correct word(s) for the blank in the following sentencebest friends to have.	the
a.	Their	
b.	There	
c.	They' re	
d.	They is	
3.	Smithco's quarterly report indicated that sales were falling, the same report s growth in net income. Which group of words would make a more effective re beginning of this sentence?	
a.	Smithco's quarterly report indicating that sales were falling,	
b.	Before Smithco's quarterly report indicated that sales were falling,	
c.	Although Smithco's quarterly report indicated that sales were falling,	
d.	Smithco's quarterly growth in earnings report showed that sales were falling,	
e.	Smithco's quarterly report that sales were falling also indicated,	

4. Se	elect the correct word(s) for the blank in the following sentence	went
to	the movies last weekend.	
a.	She and I	
•	She and me	
	Her and I	
	Her and me	
	oming up on stage, the speaker announced the start of the event. Which ay to revise the sentence?	is the best
a.	The speaker coming up on stage	
b.	Coming up, the speaker, on stage announced	
c.	No revision necessary	
d.	The speaker announced, coming up on stage	
e.	Coming up the speaker at the stage announced	
a. b. c.	The student felt that the final exam was than the mid term. hardest most hardest harder more hard	
	Dave and Julie had to work late so they would finish their project on timentence was rewritten to begin with "Tomorrow night," the next words we their project had to be on time Dave and Julie will have to the to be the continum their work will have been	
d.	their project will have been	
e.	Dave and Julie have had to	

8. Select the correct word(s) f been afraid of	or the blank in the following sentence. The child to the dentist.	d has always
a. to gob. goingc. have goned. go		
	ived within the next two weeks, you will be assoway to revise the sentence?	essed a
 a. No revision necessary b. two weeks, you would b c. two weeks, you were as d. two weeks, you have be e. two weeks, you will asse 	sessed en assessed	
10. Most students at the Ui made to this sentence?	niversity enjoy their Chemistry class. Which rev	ision should be
 a. insert a comma after Unit b. change Chemistry to che c. change students to stud d. change class to Class e. replace their with they'r 	mistry ents'	

Section C - Basic Science

1.	The movement of oxygenated blood from the heart to the body is refer the following?	red to as which of
b.	cellular circulation pulmonary circulation	
c.	7	
d.	ventricular circulation	
2.	In which of the following structures is nutrient absorption most likely to mammalian digestive system?	o occur in the
a.	epiglottis	
b.	stomach	\Box
c.	duodenum	\Box
d.	cecum	
3.	Which of the following is considered to be a contributing factor in the comortality among developing countries?	lecrease of infant
a.	the marital status of the mother	
b.	the education opportunities provided to women	
c.	the increase in health costs	
d.	the decrease in domestic violence toward pregnant women	

4.	Which is likely to occur following the emigration and immigration of incopulation near an open body of water?	dividuals into a
a.	the population will remain the same if the rate of immigration is equal to the birth rate	
b.	the population will increase if the rate of immigration is less than the rate emigration	
c.	the population will increase if the rate of immigration is greater than the rate of emigration	
d.	the population will decrease if the rate of immigration is greater than the rate of emigration	
5.	A malfunctioning aorta will result in which of the following?	
a.	deoxygenated blood would not be transported to the heart	
b.	deoxygenated blood would not be transported to the lungs	
c.	oxygenated blood would not be transported to the heart's atria	\vdash
d.	oxygenated blood would not be transported to the body's cells	
6.	Which of the following structures is essential in the controlling of the a of the peripheral nervous system?	utonomic functions
a.	pons	
b.	thalamus	
c.	hypothalamus	
d.	medulla oblongata	
_		
7.	Which of the following is a distinguishing characteristic between eukar prokaryotes?	yotes and
a.	the presence of DNA	
b.	the presence of a nucleus	
c.	the presence of proteins	
d.	the presence of ribosomes	

8.	Cellular respiration, the process responsible for the production of cellular energy would be performed using which of the following organelles?		
c.	ribosome nucleolus chloroplast mitochondria		
9.	At the end of mitosis in the human body cell, how many cells are produ the number of chromosomes in each cell?	ced and what is	
b. c.	2 cells with 23 chromosomes2 cells with 46 chromosomes4 cells with 23 chromosomes4 cells with 46 chromosomes		
10	10. Which of the following controls the flow of chime from the stomach into the small intestine?		
b. c.	Pyloric sphincter Eosophageal sphincter Ileocecal valve Epiglottal flap		