

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2015/2016

COURSE NAME

HUMAN STRUCTURE AND

FUNCTIONS

COURSE CODE

: DAS26303

:

:

PROGRAMMECODE :

2 DAU

EXAMINATION DATE:

JUNE / JULY2016

DURATION

3HOURS

INSTRUCTION :

SECTION A: ANSWER **ALL** QUESTION

SECTION B: ANSWER ANY TWO (2)

QUESTIONS

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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SECTION A

Q1	(a)	(i) (i)	List all three (3) major parts of a neuron structure. State the function of each parts of neuron structure.	(6 marks)
	(b)	(i) (ii)	List all three (3) types of neuron. Draw all three (3) type of neuron to show sensory transmit due to a hand touching a hot surface. Locate arrows to show the signal tramovement.	-
			movement.	(9 marks)
Q2	(a)	(i) (ii) (iii)	Define hormone. State the structure that secrete hormone. State how does hormone been carried throughout the whole body.	(3 marks)
	(b)	(i) (ii)	Explain how a specific cell can respond to a hormone. State two (2) types of hormone and explain the action of each type.	(6 marks)
	(c)		ree (3) hormones secreted by anterior pituitary gland and give the formone.	unction of
				(6 marks)
Q3	(a)	(i) (ii)	Define sensory receptor. List two (2) type of sensory receptor. Give the location and function sensory receptor.	on of each
				(7 marks)
	(b)	(i) (ii) (iii)	he type of receptor and the action of each to interpret the stimulation Human tongue. Human nose. Human eye.	in
		(iv)	Human ear.	(8 marks)
Q4	(a)	(i) (ii)	Give the specific name of the reproductive organ for male and fema State the main function of the gonad.	le.
				(3 marks)
	(b)	(i) (ii)	Draw and label a structure of sperm. Give the function of each parts of the sperm's structure.	(6 marks)
	(c)	Explain	n the function of three (3) hormones in female reproduction system.	(6 marks)

SECTION B

- Q5 (a) State the special element in muscle tissue that give characteristics to muscle tissue.
 - (ii) List all type of muscle tissue and give the location of each type.
 - (iii) Draw the structure of each type of muscle tissue.

(10 marks)

- (b) (i) State two (2) main structures in a human body that are made up from squamous epithelial tissue.
 - (ii) Explain one (1) of the special characteristics of epithelial tissue.
 - (iii) Draw structure of stratified cubodial epithelium tissue. Give the location and specific function of this type of tissue.

(6 marks)

(c) Copy and complete the **Table 1** below in your answering booklet.

Table 1: Function and location of connective tissue

Connective tissue	Location	Function
Dense connective tissue		
Fluid connective tissue		

(4 marks)

- **Q6** (a) (i) Give three (3) functions of human skeletal.
 - (ii) List two (2) types of tissue in human skeletal and their function.
 - (ii) Human skeletal is divided into two major parts. List all parts and give the main function of each type.

(11 marks)

- (b) List the functions of the vertebrae listed below:
 - (i) Axis.
 - (ii) Atlas.
 - (iii) Lumbar vertebrae.
 - (iv) Sacral vertebrae.
 - (v) Thoracic vertebrae.

(5 marks)

- (c) (i) Give two (2) major function of ribcage.
 - (ii) State the type of connective tissue that can be found in the ribcage structure.

(4 marks)

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- Q7 (a) (i) Explain four (4) major function of cardiovascular system.
 - (ii) Name the major circuit of cardiovascular system.

(10 marks)

(b) Explain the characteristics of blood capillary that permits gasses and minerals exchange.

(2 marks)

- (c) (i) Give three (3) functions of blood.
 - (ii) State the proteins in blood that carry oxygen.
 - (iii) Copy and complete the **Table 2** below in your answering booklet.

Table 2: Antibody and antigen of blood

Blood type	AB	0
Antigen		
Antibody		

(8 marks)

- **Q8** (a) (i) Give the main function of respiratory system.
 - (ii) Explain what happens to the inhalation air before entering lungs.
 - (iii) Copy and complete the **Table 3** below in your answering booklet.

Table 3: Inhalation and exhalation process

Process	Ribcage	Diaphragm	Air pressure in lungs
Inhalation			
Exhalation			

(11 marks)

- (b) (i) State two (2) functions of urinary system.
 - (ii) State the functional unit of kidney.
 - (ii) Explain each steps in urine formation.

(9 marks)