

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
BSU4245 – HUMAN PHYSIOLOGY – LEVEL 04
FINAL EXAMINATION

REGISTRATION NO:

Part B – Structured Essay Questions

(40 marks)

Write answers in the space provided.

1) a) Name the **two forces** governing the tissue fluid exchange at capillary bed? (04 marks)

I.....

II.....

b) Draw a diagram to illustrate the structure of a motor neuron (10 marks)

Comment on the speed of conduction in following nerve types. (2 marks)

I. Myelinated nerves (slow/ faster)

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II. Non-myelinated nerves (slow/faster)

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c) List two (02) functions of cerebrospinal fluid. (4 marks)

- I.
- II.





2. a) Define cardiac output? (2 marks)

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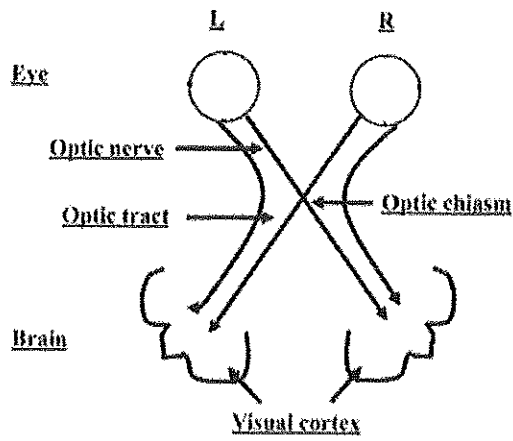
b) List the three (03) phases of cardiac cycle? (6 marks)

- I.
- II.
- III.

c) Following diagram shows the visual defects produced by lesions (A and B) in the visual pathway. (6 marks)

Lesion	Left Eye	Right Eye	Visual Defect
A			Total blindness of the right eye (1)
B			Bitemporal hemianopia

Identify the lesion and indicate it in the correct place of the visual pathway shown below.



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b) Mention a function of following parts of male reproductive system.

(6 marks)

- I. Seminiferous tubules
- II. Seminal vesicles
- III. Epididymis

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REGISTRATION NO:

Part C – Essay Questions

(40 arks)

1. a) Explain the role of antidiuretic hormone (ADH) on regulation of ECF volume by the kidney (10 marks)
- b) Briefly outline the chemical digestion of proteins in the gastrointestinal tract. (10 marks)

2. a) Outline the physiological basis of hyperglycaemia in pancreatitis. (5 marks)
- b) Describe a 28-day ovarian cycle, including changes in the follicles in response to changing hormone levels. (15 marks)

