

**UNIVERSITY COLLEGE LONDON**

*University of London*

**EXAMINATION FOR INTERNAL STUDENTS**

*For the following qualifications :-*

*B.Sc.*

**Health Sciences HSC26: Basis of Medicine (II)**

COURSE CODE : **HESC0026**

UNIT VALUE : **0.50**

DATE : **24-APR-02**

TIME : **10.00**

TIME ALLOWED : **2 hours**

02-C0683-3-50

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**TURN OVER**

**Health Sciences HSC26: Basis of Medicine (II)**  
**London Foot Hospital and School of Podiatric Medicine**

**April 2002**

Time allowed: 2 hours

Suggested time allocation:- Section A – one hour (counts for 60% of total mark)  
Section B – one hour (counts for 40% of total mark)

**All of the questions in section A must be answered. Write your answers to this section in the spaces provided on the question paper.**

**You must also answer two questions from section B. Write your answers to this section in the books provided, start each answer in a separate answer booklet.**

**TURN OVER**

**Health Sciences HSC26: Basis of Medicine (II)**

**Section A – answer all questions**

1. A 22 year old woman presents with painful micturition (dysuria). List some clinical features that would support the diagnosis of a urinary tract infection.
  - i.
  - ii.
  - iii.
  - iv.
  - v.
  
2. A young man who has returned from his summer holidays presents with symptoms suggestive of a chest infection. However his cough does not produce much sputum and microscopy of a Gram stain of the sputum is negative. List some likely causes for his pneumonia.
  - i.
  - ii.
  - iii.
  - iv.
  - v.
  
3. If a patient is suffering from secondary hypertension what possible causes should be considered?
  - i.
  - ii.
  - iii.
  - iv.
  - v.
  
4. List here some important causes of heart failure.
  - i.
  - ii.
  - iii.
  - iv.
  - v.
  - vi.
  - vii.
  - viii.
  - ix.
  - x.

**CONTINUE**

5. A 50 year old actor from the Royal Shakespeare company presents with for the first time with diabetes mellitus. List some symptoms that he might describe.

i.

ii.

iii.

iv.

v.

vi.

vii.

6. What are the features to look for in a person when assessing their risk of having a stroke?

i.

ii.

iii.

iv.

v.

vi.

vii.

viii.

ix.

x.

7. List here some patterns of red cell morphology and what they indicate.

i.

ii.

iii.

iv.

v.

**TURN OVER**

8. List some hormones that are involved in the control of salt and water balance.

- i.
- ii.
- iii.

9. If a patient develops a tumour of the pituitary gland that grows rapidly what sort of events might happen?

- i.
- ii.
- iii.
- iv.
- v.

10. If a person is said to have irritable bowel syndrome, what sort of symptoms are they likely to describe?

- i.
- ii.
- iii.
- iv.
- v.
- vi.
- vii.
- viii.
- ix.
- x.

11. What infective agents are known to cause diarrhoea?

- i.
- ii.
- iii.
- iv.
- v.

**CONTINUE**

12. What are the causes of haematemesis?

- i.
- ii.
- iii.
- iv.
- v.
- vi.

13. What options are available to us for the management of hypertension?

- i.
- ii.
- iii.
- iv.
- v.
- vi.
- vii.
- viii.
- ix.
- x.

14. List some causes of acute glomerulonephritis.

- i.
- ii.
- iii.
- iv.
- v.
- vi.
- vii.
- viii.
- ix.
- x.

**TURN OVER**

15. List some features of nephrotic syndrome.

- i.
- ii.
- iii.
- iv.
- v.

16. If a young woman who likes to travel presents with iron deficiency anaemia what are the likely causes that should be considered?

- i.
- ii.
- iii.

17. List some symptoms that might be described by a patient who is suffering from Multiple Sclerosis.

- i.
- ii.
- iii.
- iv.
- v.
- vi.
- vii.
- viii.
- ix.
- x.

18. What changes might you expect the in the blood of a patient who has developed an acute infection?

- i.
- ii.
- iii.
- iv.
- v.

**CONTINUE**

19. Describe some manifestations of disturbance of the basal ganlia.

i.

ii.

iii.

iv.

v.

20. List here some causes of haemoptysis.

i.

ii.

iii.

iv.

v.

vi.

vii.

viii.

ix.

**TURN OVER**



**Health Sciences HSC26: Basis of Medicine (II)**

**SECTION B – answer 2 questions**

1. Discuss the structure and function of the epidermis and dermo-epidermal junction. (20)  
Give examples of disease processes that may affect these two skin structures.
  
2. Write short notes on:
  - a) Non-melanoma skin cancers (4)
  - b) Cutaneous vasculitis (4)
  - c) Contact dermatitis (4)
  - d) Kaposi sarcoma (4)
  - e) Tinea unguium (4)
  
3. Write short notes on:
  - a) Kellen's arthroplasty (5)
  - b) Decompression osteotomy (5)
  - c) Basal wedge osteotomy (5)
  - d) Cheilectomy (5)
  
4. Write some short notes on the following
  - a) Describe the causes of shortness of breath (4)
  - b) Write on the origins of acute chest pain (4)
  - c) What are the chief physical signs associated with renal disease? (4)
  - d) Write about eliciting a clinical history when someone presents with diarrhoea (4)
  - e) What diseases in the past medical history should be particularly asked about and why? (4)

**END OF PAPER**