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## MANIPAL UNIVERSITY

FIRST SEMESTER B. Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2011

SUBJECT: ANATOMY

Monday, January 03, 2011

Time: 10:00-11:30 Hrs

Maximum Marks: 40

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1. Describe the left lung and its clinical aspects.

(8+2 = 10 marks)

2. Write briefly on:

2A. Mediastinum

2B. Left kidney.

2C. Left ventricle.

2D. Spermatic cord.

2E. Second part of duodenum.

2F. Cardiac muscle.

(5×6 = 30 marks)



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# MANIPAL UNIVERSITY

FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2011

SUBJECT: PHYSIOLOGY

Wednesday, January 05, 2011

Time: 10:00 – 11:30 Hours

Maximum Marks: 40

**1. Essay questions:**

- 1A. Name the functional lobes of cerebellum. List its functions. Mention any two features of cerebellar lesion.
- 1B. Describe the mechanism of quiet inspiration and expiration.
- 1C. List the steps in neuromuscular transmission in skeletal muscle.
- 1D. Mention five functions of hypothalamus.

(5×4 = 20 marks)

**2. Write short answers for the following:**

- 2A. Name the photoreceptors. What is their function?
- 2B. Name two hormones secreted by posterior pituitary gland. Mention one function of any one hormone.
- 2C. List two actions of oestrogen.
- 2D. Define Glomerular Filtration Rate. Give its normal value.
- 2E. List two functions of liver.
- 2F. Enumerate two properties of cardiac muscle.
- 2G. Define resting membrane potential. Give its normal value in a nerve fiber.
- 2H. Enumerate two uses of electrocardiogram.
- 2I. List two actions of thyroid hormones.
- 2J. Name the lobes of cerebral cortex.

(2×10 = 20 marks)



**MANIPAL UNIVERSITY****FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2011****SUBJECT: ENGLISH**

Friday, January 07, 2011

Time: 10:00-13:00 Hrs

Maximum Marks: 80

✍ **Answer all questions.****GRAMMAR****1. Write an essay on any TWO of the topics given below:**

- 1A. What are the parts of speech in the English language? Please illustrate with examples.
- 1B. What are the different types of tenses in the English language? Elaborate using examples.
- 1C. What are the different types of clauses? Use examples to explain.

(5×2 = 10 marks)

**2. Change the following sentences from active to passive:**

- 2A. My mother did all the work in the house.
- 2B. I offered him a seat in the bus.
- 2C. We must obey our parents.
- 2D. Solomon built all the beautiful palaces.
- 2E. Anitha took all the children for a movie.

(1×5 = 5 marks)

**3. Change the following sentences from passive to active:**

- 3A. The letter was written by the clerk.
- 3B. The car accident was caused by the drunk driver.
- 3C. The committee meeting was inaugurated by the President of India.
- 3D. The ship was abandoned by the captain and its crew.
- 3E. I was greatly praised by the Governor.

(1×5 = 5 marks)

**4. Use appropriate question tags for the following sentences:**

- 4A. Maya did not do well in the exam, \_\_\_\_\_?
- 4B. There are many students enrolling in this exam, \_\_\_\_\_?
- 4C. Devika is staying with her aunt, \_\_\_\_\_?
- 4D. You do understand the complications of the situation, \_\_\_\_\_?
- 4E. I am right, \_\_\_\_\_?

(1×5 = 5 marks)

**5. Do as directed...**

- 5A. He leads a sad and unhappy life. (Change the sentence into an exclamatory sentence)

- 5B. As soon as the Chairman entered the room, he made demands. (Change the sentence into a negative sentence)
- 5C. We were listening to the radio all evening. (Change the verb in the sentence from Past Continuous Tense to Past Perfect Tense)
- 5D. He thanked me for what I \_\_\_\_\_ (to do). (Insert the appropriate form of the verb in the bracket)
- 5E. Soumya, speak English. (Rewrite the following sentence in the reported speech)
- (1×5 = 5 marks)

**6. Write the appropriate synonyms for the words given below:**

- 6A. Eccentric:
- 6B. Latent:
- 6C. Absurd:
- 6D. Impede:
- 6E. Confer:

(1×5 = 5 marks)

**7. State which mood (verb) the following sentences belong to:**

- 7A. Let us go.
- 7B. God be with you!
- 7C. Keep to the left.
- 7D. Why should I obey my parents?
- 7E. Were it possible, I would do it.

(1×5 = 5 marks)

**US English and UK English:**

**8. Write short notes on any THREE of the following:**

- 8A. Syntax
- 8B. Semantics
- 8C. Spelling
- 8D. Idiomatic expression

(2×3 = 6 marks)

**9. State whether the statements given below are true or false:**

- 9A. The idiom "Shoot the breeze" means talking informally.
- 9B. The term "Public school" in American English is a term used to refer to a private establishment.
- 9C. Potato is a term borrowed from the natives of Britain and is used by US English speakers.
- 9D. American English uses fifteen vowels.

(1×4 = 4 marks)

## PHONETICS

10. State the differences between Pulmonic and Velaric airway mechanisms.

(4 marks)

11. State and explain the five ways how a consonant sound is described.

(10 marks)

**12. Write short notes on any FIVE of the following topics:**

12A. The phonatory system

12B. Glottalic air stream mechanism

12C. Vocal cords

12D. Labiodental articulator

12E. Fricatives

12F. Allophones

12G. Consonant clusters

(2×5 = 10 marks)

**13. Transcribe the following into I.P. notation:**

13A. Greeting

13B. Mother

13C. Good

13D. What

13E. Madam

13F. Law

(1×6 = 6 marks)

