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## MANIPAL UNIVERSITY

FIRST SEMESTER B. Sc. H.I.A. DEGREE EXAMINATION – JUNE 2010

SUBJECT: ANATOMY

Monday, June 07, 2010

Time: 10:00-11:30 Hrs

Maximum Marks: 40

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1. Name the cartilages and muscles of the larynx. Explain the cavity of larynx.

(4+6 = 10 marks)

2. Write briefly on:

2A. Tongue

2B. Ureter

2C. Prostate gland

2D. Right ventricle

2E. Spinal cord

2F. Neuron

(5×6 = 30 marks)



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## MANIPAL UNIVERSITY

FIRST SEMESTER B.Sc. H.I.A. / FIRST YEAR B.Sc. C.V.T. / B.Sc. M.I.T  
DEGREE EXAMINATION – JUNE 2010

SUBJECT: PHYSIOLOGY

Wednesday, June 09, 2010

Time: 10:00 – 11:30 Hours

Maximum Marks: 40

**1. Essay questions:**

- 1A. Mention any four functions of hypothalamus. Explain any one.
- 1B. With the help of a neat labeled diagram of the neuromuscular junction, describe the sequence of events of neuromuscular transmission.
- 1C. Draw a labeled graph showing left ventricular pressure changes during a cardiac cycle and explain the same.
- 1D. Describe the composition and functions of blood.

(5×4 = 20 marks)

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

- 2A. List any TWO functions of estrogen.
- 2B. Define GFR. Give its normal value.
- 2C. Draw a neat labeled diagram of the sensory pathway that carries pain and temperature sensations from various parts of the body to the brain.
- 2D. Mention TWO factors that shift the oxygen dissociation curve to the right.
- 2E. List any FOUR functions of liver.
- 2F. Mention the functions of middle ear.
- 2G. Mention the normal value of heart rate in adults. Give one condition where heart rate is increased.
- 2H. What is facilitated diffusion? Give an example for the same.
- 2I. Mention any TWO clinical features of diabetes mellitus.
- 2J. What is stroke volume? Give its normal value.

(2×10 = 20 marks)



**MANIPAL UNIVERSITY****FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JUNE 2010****SUBJECT: ENGLISH**

Friday, June 11, 2010

Time: 10:00-13:00 Hrs

Maximum Marks: 80

✍ **Answer all questions.****GRAMMAR****1. Use the verbs in the bracket in the correct tense and fill in the blanks:**

- 1A. I \_\_\_\_\_ (to write) a letter. (Present continuous tense)  
1B. My mother \_\_\_\_\_ (to read) a book. (Present continuous tense)  
1C. I \_\_\_\_\_ (to read) this book since two o' clock. (Present perfect continuous)  
1D. I \_\_\_\_\_ (to visit) Mysore this summer. (Future continuous tense)  
1E. My friend \_\_\_\_\_ (to see) him before he left to Mangalore. (Past perfect tense)

(1×5 = 5 marks)

**2. Write short notes on any TWO of the following:**

- 2A. Noun clause  
2B. Mood  
2C. Compound sentences  
2D. Conjunctions

(2×2 = 4 marks)

**3. Do as directed:**

- 3A. He said he was innocent. (Convert this sentence into a simple sentence.)  
3B. A spider saved Robert Bruce. (Convert this sentence into a complex.)  
3C. Search his pockets and you will find the watch. (Convert this sentence into a complex sentence.)  
3D. Do as I tell you, or you will regret it. (Convert this sentence into a complex sentence.)  
3E. I am certain you have made a mistake. (Convert this sentence into a compound sentence.)

(1×5 = 5 marks)

**4. What part of speech does each of the underlined word stand for?**

- 4A. The flowers are beautiful.  
4B. Have you seen a Flying Saucer?  
4C. Things are cheaper in Ooty.  
4D. Don't you know you have to wash your hands before eating?  
4E. We are ready with the files.  
4F. We are trying to eat the bananas, but they are so ripe.

(1×6 = 6 marks)

**5. Insert appropriate question tags:**

- 5A. The post office is nearby, \_\_\_\_\_?  
5B. You are going to the party, \_\_\_\_\_?  
5C. Sheila has sent the letter, \_\_\_\_\_?  
5D. Shekar will bring the parcel tomorrow, \_\_\_\_\_?  
5E. We can shop in Bangalore after the wedding, \_\_\_\_\_?

(1×5 = 5 marks)

**6. Make sentences of the following words:**

- 6A. Abstain  
6B. Lax  
6C. Sly  
6D. Pandemonium  
6E. Discord

(1×5 = 5 marks)

**7. Write an essay on any TWO of the following:**

- 7A. State the different types of Adjectives and elaborate their use with examples.  
7B. What is a clause? List all the adverbial clauses with examples.  
7C. What are Modal Auxiliaries? State all the rules associated with their usage. Explain their usage with examples.

(5×2 = 10 marks)

**UK English and US English:**

**8. State whether the following statements are true or false:**

- 8A. UK English uses 5 main vowels while US English uses 8 of them.  
8B. "Cannibal" is a word borrowed from Greek.  
8C. In Britain, generally, the term "sweets" is used more than "candy".  
8D. "Druggist" is the American English word for "Chemist".  
8E. The word "honour" is spelt h-o-n-o-r in US English.  
8F. "Canoe" is a word borrowed from Latin.

(1×6 = 6 marks)

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

- 9A. Phonology  
9B. Syntax  
9C. Idiomatic expression  
9D. Spelling

(2×3 = 6 marks)

**10. Cite the spelling change in US English:**

- 10A. Colour:
- 10B. Litre:
- 10C. Gaol:
- 10D. Totalled:
- 10E. Plough:

(1×5 = 5 marks)

**Phonetics**

**11. Write an essay on any TWO of the topics given below:**

- 11A. State and explain briefly the classification of consonants based on the manner of articulation.
- 11B. What are diphthongs? Illustrate using examples.
- 11C. What are the differences between minimal pairs and consonant clusters?

(5×2 = 10 marks)

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

- 12A. Fricatives
- 12B. Plosives
- 12C. Stress
- 12D. Articulators
- 12E. Function of the glottis
- 12F. Pure vowels

(2×4 = 8 marks)

**13. Transcribe the following words into the IP notation:**

- 13A. Saw
- 13B. Day
- 13C. The
- 13D. What
- 13E. Hospital

(1×5 = 5 marks)

