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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FIRST SEMESTER B. Sc. H.I.A. DEGREE EXAMINATION – MAY/JUNE 2006

SUBJECT: ANATOMY

(COMMON FOR BOTH OLD & NEW REGULATIONS)

Wednesday, May 31, 2006

Time available: 1½ Hours

Maximum Marks: 40

Answer ALL questions.

1. Describe the "mediastinal surfaces" of both the lungs.

(5+5 = 10 marks)

2. Write briefly on:

2A. Pituitary gland.

2B. Liver.

2C. Ventricles of the heart.

2D. Cartilagenous joints.

2E. Functional areas of cerebrum.

2F. Retina.

(5×6 = 30 marks)



Reg. No.

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(Deemed University)

FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – MAY/JUNE 2006

SUBJECT: PHYSIOLOGY

(COMMON FOR BOTH OLD & NEW REGULATIONS)

Thursday, June 01, 2006

Time available: 1½ Hours

Maximum Marks: 40

Answer all questions

1A. Classify WBCs with examples. Mention one function of WBCs. Give normal total WBC count.

(3½+1+½ = 5 marks)

1B. Define the following:

- i) Stroke volume ii) Blood pressure iii) Cardiac cycle
iv) Pulse pressure v) Cardiac output

(1×5 = 5 marks)

1C. Define intrapleural pressure. Give its normal value at the start of inspiration. Give its importance. What is surfactant and name the cells that secrete it.

(1+1+1+2 = 5 marks)

1D. Name any three hormones of anterior pituitary. Mention one function each of ADH and oxytocin.

(3+2 = 5 marks)

1E. Define a receptor. Mention two properties of it. Name two ascending tracts of spinal cord.

(1+2+2 = 5 marks)

2A. List the events in neuromuscular transmission.

(3 marks)

2B. Name the cells in the stomach mucosa that secrete

- i) HCl ii) Pepsinogen iii) intrinsic factor

Name the phases of gastric secretion.

(1½+1½ = 3 marks)

2C. List three functions of kidney.

(3 marks)

2D. List three functions each of progesterone and placenta.

(3 marks)

2E. Mention two functions of middle ear. Name the receptor for colour vision and taste.

(2+1 = 3 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – MAY/JUNE 2006

SUBJECT: ENGLISH

Friday, June 02, 2006

Time available: 3 Hours

Maximum Marks: 80

1. Write short notes on:

- 1A. Pronunciation of words ending in-ng
- 1B. Centering diphthongs
- 1C. Phrases and clauses
- 1D. Free and bound morphemes
- 1E. Consonant clusters
- 1F. American slangs
- 1G. Elision
- 1H. Passive and active articulators.

(2×8 = 16 marks)

2. Name the parts of speech are the words underlined:

- 2A. Try it again
- 2B. Pick up the jug and place it in the shelf.
- 2C. Curd rice is my favourite dish.
- 2D. You don't need an axe to sharpen a pencil.
- 2E. The patient should take fruit and milk regularly.
- 2F. Have you ever seen a flying duck?
- 2G. Don't fold the letter more than two times.
- 2H. Thank you God for everything you have given us.

($\frac{1}{2}$ ×8 = 4 marks)

3. Re-write the following from affirmative sentences into negative and the negative ones into affirmative:

- 3A. We go in for quality products.
- 3B. I don't think so.
- 3C. Please repeat.
- 3D. They got off the bus hastily.
- 3E. She looks after the child with great care.
- 3F. They do not get enough help.
- 3G. The government could not inform the bad news earlier.
- 3H. That reminds me.

($\frac{1}{4}$ ×8 = 2 marks)

4. Complete the sentences with question tags:

- 4A. Kamini does not know the correct answer,
- 4B. She won the best singer trophy,
- 4C. The board members failed to understand the problems,
- 4D. Paris is not in Africa,
- 4E. Ploughing deep is more productive,

- 4F. They were not in this country when the accident took place,
4G. They should have arrived by now,
4H. Geeta plays the veena very well,

($\frac{1}{4} \times 8 = 2$ marks)

5. Put the following sentences into passive voice:

- 5A. The station master waved the green flag.
5B. The people will respect the traffic rules.
5C. Father has left the door open.
5D. They made another attempt.
5E. We must look into the matter.
5F. The ghost frightened the traveller.
5G. Somebody must do something.
5H. My friend has given me this.

($\frac{1}{2} \times 10 = 5$ marks)

6. Re-write the following sentences into active voice:

- 6A. The meeting was attended by a large number of people.
6B. A very humorous story was told to us.
6C. The patients are being looked after by the nurse.
6D. The house is being guarded by strong men.
6E. Soman had been elected president by the committee.
6F. You cannot be helped by anyone.
6G. The bus was saved by some in the crowd.
6H. I am taught English by Mr Smith.
6I. The waste was thrown into the dust bin.
6J. The bicycles should not be parked in front of the college gate.

($\frac{1}{2} \times 10 = 5$ marks)

7. Use the words in brackets to fill in the blanks. Use the verbs in the correct tense:

- 7A. Please be quiet. I _____ to an important work. (attend)
7B. We _____ with our eyes. (see)
7C. Generally our minister speaks in Hindi. Look! Now he _____ English. (speak)
7D. In the middle ages, people _____ that the earth was flat. (believe)
7E. My father was reading a newspaper while mother _____. (cook)
7F. I _____ friend for a week. (not see)
7G. My sister _____ the story by the time I reach home. (finish)
7H. If it _____ I may not go out. (rain)
7I. I don't like Paul. When he entered the room, I _____. (leave)
7J. Father went into the kitchen to see what mother _____. (cook)
7K. In a month's time, the boy _____ his exam. (take)
7L. Cuckoos _____ nests. (not build)

($\frac{1}{2} \times 12 = 6$ marks)

8. Re-write the following as directed without changing the meaning:

- 8A. He was sorry because he was late.

Use: ...being..

- 8B. When he opened the bag, he found a snake in it.
Begin: on . . .
- 8C. He will win. I am certain.
Combine using 'that'
- 8D. She found her key. It was lying under her bed.
Combine the sentences.
- 8E. On arrival at the station, the passengers got down.
Begin: when. . . .
- 8F. Although my father had a fever, he attended office.
Begin: in spite of
- 8G. Tea is too hot for me to drink.
Use so. . that . . .
- 8H. The boss was pleased with sales. He put up the salary of all workers.
Begin: pleased. . .
- 8I. Milk is thicker than water.
Begin: water
- 8J. You did not ask me. I did not give.
Begin: if. . . .
- 8K. She quietly entered the room. She wanted to find out the truth.
Combine using 'in order to'
- 8L. Having finished his work he went out to play.
Begin: when. . .
- 8M. Hard working people win honour and pride
Begin: People
- 8N. The murderer was sent to prison for life.
Begin: the judge
- 8O. Maya looked at Chaya and Chaya looked at Maya.
Use: each other
- 8P. To walk on the grass is bad.
Begin: It is
- 8Q. 'Are you going home after school?'
Begin: the teacher asked me . . .
- 8R. 'I shall be sixteen years old soon' said Nagendra
Begin: Nagendra . . .
- 8S. Mother said to the children, 'Don't play with fire'.
Begin: mother advised
- 8T. Joy said to Mary, 'How did you lose your wallet?'
Begin: Joy asked Mary

(1×20 = 20 marks)

9. Say whether the following statements in relation to phonetics and US English are **true** or **false**
- 9A. Monophthongs and diphthongs are vowels.
- 9B. In English no word ends with /ʌ/ phoneme.
- 9C. In the English word air, the diphthong is a central diphthong.
- 9D. When the word doctor is said in English the first phoneme is aspirated.
- 9E. The suffixes in the English words 'worked' and 'laughed' have similar pronunciation.

- 9F. The English phoneme /y/ is voiced velar nasal.
 9G. In the English word correct the stress falls on the second syllable.
 9H. Yes/No questions are generally said in the rising intonation.
 9I. In the English phrase butter and eggs r is not sounded.
 9J. The weak form of is can either be /s/or/z/.
 9K. In US English intonation does not generally rise and fall.
 9L. The word letter is pronounced /leda/ in US English.
 9M. /t/ is not prominently pronounced in US English.
 9N. I am getting real good idea, is the US way of speech.
 9O. Faucet in US English is tap in British English
 9P. American pupils 'graduate' from high school.
 9Q. In US English 'hopped down' means made a trip.
 9R. 'Cool it' is American slang to mean be quiet.
 9S. US English has 24 consonant phoneme.
 9T. 'Folks' is an American Slang to mean parents or relatives.

($\frac{1}{4} \times 20 = 5$ marks)

10. Fill in the blanks appropriately using terms related to phonetics and US English:
 10A. The shortest phoneme in the English phonemic system is _____.
 10B. The name of English letter x is made up of _____ phonemes.
 10C. A sequence of consonants is known as _____.
 10D. In English there are twenty six letters with the help of which _____ phonemes are to be made.
 10E. _____ words are often stressed in speech.
 10F. US English uses _____ diphthongs in speech.
 10G. In American English the slang nope means _____.
 10H. 'Get on the horn' in US English means _____.
 10I. Trousers are _____ in US English.
 10J. In US English _____ means cinema in UK English.

($\frac{1}{2} \times 10 = 5$ marks)

11. What do the following symbols represent?

- 11A. /seɪd/
 11B. /mʌnθ/
 11C. /praɪd/
 11D. /tuərist/
 11E. /dʒʌŋɡl/
 11F. /fɜ:m/
 11G. /ɛʃeɪ/
 11H. /kɑ:dʒ/

($\frac{1}{4} \times 8 = 2$ marks)

12. Transcribe the following English words into phonemic symbols:

- | | | | |
|-----------|------------|-------------|------------|
| a. bricks | b. mister | c. ready | d. leather |
| e. feast | f. juice | g. crosses | h. shiver |
| i. tune | j. sleeper | k. festival | l. rough |
| m. demand | n. rapidly | o. thunder | p. plunder |

($\frac{1}{2} \times 16 = 8$ marks)

