

Reg. No.

MANIPAL UNIVERSITY

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

SUBJECT: ANATOMY

Monday, January 04, 2010

Time: 10:00-11:30 Hrs

Maximum Marks: 40

Answer ALL questions.

1. Explain the walls of the nasal cavity under the following headings:

- 1A. Formation (bones and cartilages)
- 1B. Blood supply
- 1C. Nerve supply

(4+3+3 = 10 marks)

2. **Write briefly on:**

- 2A. Midbrain
- 2B. Duodenum
- 2C. Mediastinal surface of left lung
- 2D. External features of spinal cord
- 2E. Large intestine
- 2F. Kidney

(5×6 = 30 marks)



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

SUBJECT: PHYSIOLOGY

Tuesday, January 05, 2010

Time: 10:00 – 11:30 Hours

Maximum Marks: 40

1. Essay questions:

- 1A. In a tabular column mention the agglutinogens and agglutinins of ABO and Rh system.
- 1B. Mention three actions of cortisol. Add a note on Cushing's syndrome.
- 1C. Define cardiac output. Give its normal value. Explain the regulation of heart rate.
- 1D. Explain the mechanism of quiet breathing.

(5×4 = 20 marks)

2. Write short answers for the following:

- 2A. Describe the different types of active transport across the cell membrane.
- 2B. Explain two functions of WBCs.
- 2C. List the different phases of cardiac cycle.
- 2D. Define hypoxia. Give one example each for each type of hypoxia.
- 2E. Draw and label a stretch reflex.
- 2F. Mention the steps involved in excitation contraction coupling in skeletal muscles.
- 2G. Give the composition and functions of saliva.
- 2H. Define GFR. Give its normal value.
- 2I. List two actions of testosterone.
- 2J. Mention two actions of growth hormone.

(2×10 = 20 marks)



MANIPAL UNIVERSITY

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

SUBJECT: ENGLISH

Wednesday, January 06, 2010

Time: 10:00-13:00 Hrs

Maximum Marks: 80

GRAMMAR**1. Name the parts of speech of the words underlined:**

- 1A. Reading is my favorite form of amusement.
 1B. My friend has travelled all over our country.
 1C. There were three applicants for the job.
 1D. I don't approve of smoking here.
 1E. Leave your shoes outside.
 1F. It's awfully cold today.
 1G. My anger grew as he continued his insults.
 1H. This water bucket leaks.
 1I. Though the boy is naughty, he is intelligent.
 1J. Barking dogs don't bite.

(1/4 × 10 = 2½ marks)

2. Use the right question tags. The receiver agrees with the statement:

- 2A. This is a strange world,
 2B. Your grandfather doesn't visit you these days,
 2C. Father hasn't returned from the office,
 2D. Liars are not trusted,
 2E. We cannot drive fast on a bumpy track,
 2F. Some people work very hard,
 2G. Many years ago people thought that the earth was flat,
 2H. The sun rises and sets everyday,
 2I. We became a free country in 1947,
 2J. Life should be difficult in cold countries,

(1/2 × 10 = 5 marks)

3. Rewrite the following sentences changing the active verb into passive or vice-versa.

- 3A. People often praise her.
 3B. I was taught English by David.
 3C. Photograph can be taken after dinner.
 3D. The guide granted permission to swim.
 3E. The referee was being escorted by a strong person.
 3F. Saleem sent a letter of thanks last week.
 3G. This piece of work should be completed soon.
 3H. That incident has changed everything.
 3I. You will be given necessary things.
 3J. The police officer shot the mad dog.

(1 × 10 = 10 marks)

4. Rewrite each sentence beginning with the words given to get the reported form of spoken words:

- 4A. Joseph said, 'My sister is learning to cook'.
Joseph said that _____.
- 4B. Mohan said to his wife, 'I'm going out now'.
Mohan told his wife _____.
- 4C. Mary said to her friend, 'Have you ever seen an idli-making machine?'
Mary asked her friend _____.
- 4D. Saleem said, 'I shall be sixteen soon'.
Saleem said _____.
- 4E. The lady said, 'When will my blouse be ready?'
The lady wanted to know _____.
- 4F. 'Who told you to do like this?' said my new employer.
My new employer asked me _____.
- 4G. The supervisor said to his assistant, 'Pack all these books in a card board box'.
The supervisor asked his assistant _____.
- 4H. Joy said to Lucy, 'I answered all the questions correctly.'
Joy told Lucy _____.
- 4I. I said to Prem, 'Open the window, please'.
I asked Prem _____.
- 4J. Mother said to her son, 'Don't forget to write a letter every week'.
Mother told her son _____.

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

5. Supply suitable verb forms given:

- 5A. It was warm, so I _____ off my coat. (take)
- 5B. I _____ television when the phone rang. (watch)
- 5C. Priya usually _____ a few carrots and _____ a cup of tea at breakfast. (eat, drink)
- 5D. You _____ the room yet. There are bits of paper all over. (not sweep)
- 5E. We have bought a new house, and we _____ very soon. (move)
- 5F. When I reached the railway station, the train wasn't there. It _____ already _____ the station. (leave)
- 5G. Ali gave up eating meat two years ago. He _____ it for ten years. (eat)
- 5H. Don't phone me between 4 and 6 in the evening. I _____ for the cricket match. (practise)
- 5I. Wait here till the bus _____ (arrive)
- 5J. The baby _____ for a long time. I think it is hungry. Why don't you give him something to drink? (cry)

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

6. Rewrite the sentences as directed. Meaning should remain unchanged.

- 6A. The story was not true, but everyone believed it.
Begin: Though ...
- 6B. The boys were fishing. One of them fell into the pond.
Begin: while ...

- 6C. James heard someone knocking at the door. He ran to open it.
Begin: On hearing...
- 6D. People speak Kannada in Karnataka.
Kannada....
- 6E. Don't play in the middle of the road. It is dangerous.
Frame into one sentence beginning 'It is ...'
- 6F. The kite was flying high. It was not made of paper.
Rewrite using 'which'
- 6G. Put on your shoes, otherwise you'll hurt your leg.
Begin: If...
- 6H. Revise your answer paper and then hand it to the invigilator.
Begin: After ...
- 6I. I am tall and my uncle is very tall.
Use 'taller'.

($\frac{1}{2} \times 9 = 4\frac{1}{2}$ marks)

PHONETICS

7. Write short notes on any SIX of the following:

- 7A. Intonation
7B. Semi vowels
7C. Trills
7D. Diphthongs
7E. Elision
7F. Consonant clusters
7G. Labio-dentals
7H. Simple word

($2\frac{1}{2} \times 6 = 15$ marks)

8. Say whether the statements in relation to phonetics are True or False:

- 8A. All English phonemes are oral.
8B. When the vocal cords vibrate voiced phonemes are made.
8C. There are seven long vowels in English Phonemic system.
8D. The word went is a bound morpheme.
8E. English phoneme/h/ doesn't begin a word.
8F. The tongue is a passive articulator.

($1 \times 6 = 6$ marks)

9. Fill in the blanks using suitable words.

- 9A. _____ is the shortest vowel phoneme.
9B. _____ is never aspirated in English.
9C. The side of the tongue is called _____.
9D. In 'Tuesday' the stress falls on the _____ syllable.
9E. 'Buy' and 'boy' constitute a _____ pair.
9F. In 'far away' r is a _____ r
9G. In 'through' there are _____ phonemes.

($1 \times 7 = 7$ marks)

10. Transcribe the following English words into phonemic notation:

- 10A. best
- 10B. come
- 10C. river
- 10D. north
- 10E. root
- 10F. cheat
- 10G. sharp
- 10H. gems

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

US English

11. Write about US spelling of certain.

- 11A. English words. Mention four as examples.
- 11B. What are some of the syntactic (grammar) differences in US English?
- 11C. In American English, what is meant by a public school? What does it mean in England?
- 11D. Say what the following idioms in American English mean?
 - i) We all hopped down to Belur for the weak end.
 - ii) As the boy got up late, he ate up a small breakfast on the fly and ran out.
 - iii) He bought a new motor bike for a song.

(2+2+2+3 = 9 marks)

12. What do the following American usage mean in British English?

- 12A. Mail box
- 12B. faucet
- 12C. tube
- 12D. crib
- 12E. horn
- 12F. truck
- 12G. rail road
- 12H. garbage can
- 12I. cookie
- 12J. intermission
- 12K. 100
- 12L. rabbit food
- 12M. hot car
- 12N. closet

($\frac{1}{2} \times 14 = 7$ marks)

