

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2007

SUBJECT: PHYSIOLOGY

(COMMON FOR BOTH OLD & NEW REGULATIONS)

Tuesday, January 02, 2007

Time available: 1½ Hours

Maximum Marks: 40

Answer all questions

1. Write briefly on the following:
 - 1A. Explain the mechanism of hearing in the human ear.
 - 1B. Draw a labelled diagram of corticospinal tract. What is paralysis?
 - 1C. List the functions of kidney. Describe any one.
 - 1D. Define venous return. Give the normal value. Name four factors influencing venous return.

(5×4 = 20 marks)

2. Write short answers to the following:
 - 2A. List the functions of liver.
 - 2B. Name the plasma proteins. List their functions.
 - 2C. Define the following and give the normal value for each:
 - i) Tidal volume
 - ii) Vital capacity
 - iii) Dead space air
 - 2D. Give the cause for the following:
 - i) Cretinism
 - ii) Cushing syndrome
 - iii) Gigantism
 - 2E. Name hormones secreted by ovary. Mention their functions.

(3×5 = 15 marks)

3. State whether the following statements are **TRUE** or **FALSE**.
 - 3A. Vestibular apparatus is present in the inner ear.
 - 3B. Testosterone is the only male sex hormone.
 - 3C. Insulin decreases the blood glucose level.
 - 3D. Normal concentration of hemoglobin is about 14-16g% in adult male.
 - 3E. Heart sounds are produced due to the closure of heart valves.

(1×5 = 5 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2007

SUBJECT: ENGLISH

Wednesday, January 03, 2007

Time available: 3 Hours

Maximum Marks: 80

1. Write short notes on:
 - 1A. English nasal consonants
 - 1B. Syllabic consonants
 - 1C. Stress
 - 1D. Diphthongs
 - 1E. Description of the vowel
 - 1F. Basic differences between US English and UK English
 - 1G. Linking r
 - 1H. Alveolar ridge and its function. (2×8 = 16 marks)

2. What parts of speech are the words underlined?
 - 2A. Don't touch the live wire.
 - 2B. The programme was simply exciting.
 - 2C. Ah! This is what I want you to do.
 - 2D. Carry this packet to your mother.
 - 2E. Children are making sand castles by the seashore.
 - 2F. They all ran after the Farmer's wife.
 - 2G. The fire quickly consumed the hut.
 - 2H. Stop here or gently pass. (½×8 = 4 marks)

3. Re-write the sentences from affirmative to negative and the negative to the affirmative:
 - 3A. The waves destroyed a large number of buildings.
 - 3B. Talk to me.
 - 3C. Don't write on the wall.
 - 3D. Father reminded me to post the letter.
 - 3E. The visitors failed to reach the place before time.
 - 3F. It did him a lot of good.
 - 3G. She doesn't often go there.
 - 3H. We don't force people to buy our product. (¼×8 = 2 marks)

4. Complete the sentences with question tags:
 - 4A. On Sundays most of the shops are closed,

- 4B. The president did not receive the guests at the railway station,
- 4C. You don't visit your grandparents in their village,
- 4D. Roses grow very well here,
- 4E. The moon does not shine during the day,
- 4F. The chairman will be visiting our factory in a couple of days,
- 4G. Alexander wanted to conquer the whole world.
- 4H. You haven't listened to the song before,

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

5. Put the following sentences into passive voice:

- 5A. Someone has moved my bicycle.
- 5B. The boys and girls were cleaning up the college campus.
- 5C. The play will surprise the visitors.
- 5D. The soldiers are fighting the battle near the river.
- 5E. The postman had delivered the letter earlier.
- 5F. We shall forgive him.
- 5G. I was writing a letter to my brother.
- 5H. You can see the old building from here.
- 5I. We should find new ways and means.
- 5J. Carelessness causes accidents.

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

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

- 6A. The train was stopped by the engine driver.
- 6B. The date may be suitably altered at a later date.
- 6C. Many serious accidents are caused by negligence.
- 6D. These rumours should not be believed.
- 6E. The elephant is being taught to obey simple commands by the trainer.
- 6F. Children cannot be expected to obey simple commands by us.
- 6G. This mountain has not been climbed by anyone before.
- 6H. This must be borne in mind by you.
- 6I. This piano has not been tuned by anyone for years.
- 6J. Her birthday was forgotten by some of her friends.

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

7. Put the verbs between brackets into the right form of tenses:

- 7A. She usually _____ white dress, but today she is wearing a grey one. (wear)
- 7B. You can borrow my scooter. I _____ at this moment. (not use)
- 7C. He is a hard worker. He often _____ until midnight. (work)
- 7D. Mr. Ali is retiring soon. He _____ in this school next year. (not teach)
- 7E. Someone knocked at the door while I _____ bath. (have)
- 7F. When father _____ for office, it was raining hard. (leave)
- 7G. My friend _____ in this town since 2000. (live)

- 6I. The author's new book _____ next month. (publish)
 7I. He is very sensitive. He _____ people to laugh at him. (not like)
 7J. When I _____ my work, I'll tell you. (finish)
 7K. They _____ in the same factory for over twenty years. (work)
 7L. The patient _____ already _____ when the doctor arrived. (die)

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

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

- 8A. When are you returning from your village? Can you tell me? Begin : Can you.....
 8B. Gandhiji was a great man. I know it. Begin: I know
 8C. Go anywhere in this village, you can find green fields. Begin: Wherever.....
 8D. That is Gopi. You met him two days ago. (Combine using who/whom)
 8E. She has just bought a book which is very useful. Begin: The book
 8F. At the age of nine, he started playing cricket. Begin: When.....
 8G. The police were talking to the man when a newspaper reporter appeared.
 Begin: As.....
 8H. Do not take too much drug. It is dangerous. Begin: It is.....
 8I. It is not a new car. It is safe to drive. Combine using 'In spite of'
 8J. He did not know what to do, and he consulted his friend. Begin: Not.....
 8K. It is a very small object. You cannot see it with naked eyes. Combine using 'such/a'...
 8L. The ceiling is very low and I can touch it. Begin: The ceiling is so
 8M. When he felt some one touched him, he looked around. Begin: Feeling.....
 8N. The story was not true, but everyone believed it. Begin: Though.....
 8O. It is no use running. You can't catch the bus. Begin: Even if.....
 8P. If you find this useful, take it. Begin: In case of
 8Q. Jaya said to Hema, 'cover the book with brown paper'. Begin: Jaya told.....
 8R. The teacher said to me, 'How did you miss the train'?
 Begin: The teacher asked me
 8S. 'Pick up your ruler and measure the height of the cupboard', said my father.
 Begin: My father.....
 8T. 'Don't write quickly, 'Prem' said Kiran. Begin: Kiran told.....

($1 \times 20 = 20$ marks)

9. With reference to Phonetics and US English, say whether the statements below are **true** or **false**:

- 9A. In English Phonemic system there are twenty consonants and twenty-four vowels.
 9B. The English word 'brother' contains a voiced dental fricative phoneme.
 9C. In the plural form of the word bench the final phoneme is voiced.
 9D. The alveolar ridge is an active articulator.
 9E. When Really? is said with a rising intonation, it expresses surprise.
 9F. The English box does not have a consonant cluster.
 9G. Monophthongs are also called diphthongs.

- 9H. In spoken form, the English word football is said without /t/. It is an example for hiatus.
- 9I. Chain and gain in English constitute a minimal pair.
- 9J. In 'Monday' the stress falls on the first syllable.
- 9K. The phoneme /r/ is prominent in US pronunciation.
- 9L. The word poor is pronounced differently by Americans.
- 9M. Many verbs are followed by an adverb or prepositions in US English.
- 9N. The word better is mostly pronounced /betə/ in US English.
- 9O. 'Phone' in US English is referred to as horn.
- 9P. 'Spill the beans' in US English means begin the journey.
- 9Q. 'Pig out' is an American slang meaning eat too much.
- 9R. 'Lawyer' in US English means barrister in UK English.
- 9S. 'Tube' is in UK English meaning T.V.
- 9T. 'First floor' in US English means ground floor in UK English.

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

10. Fill in the blanks using appropriate words. The sentences are related to phonetics and US English.
- 10A. The number of monophthongs in English Phonemic System is _____.
- 10B. When oral sounds are made _____ is blocked.
- 10C. In the set / z, b, d, n, s, l, / _____ is not voiced.
- 10D. Plosives are also known as _____.
- 10E. Books is a _____ morpheme.
- 10F. 'Pea brain' in US English means _____.
- 10G. Past participle form of 'get' in US English is _____.
- 10H. American English has the word 'Street car' to mean _____ in UK English.
- 10I. 'Shop' is British English. It is _____ in US English.
- 10J. 'Pavement' is _____ in UK English.

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

11. Put the following I.P.A. symbols into English words:

a. /oʊrɪndʒ/ b. /təʊlɪʃ/ c. /meɪkə/ d. /gəʊld/
 e. /kri:pə/ f. /flæd/ g. /waɪnd/ h. /ni:dɪ/

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

12. Transcribe the following words into phonemic symbols:

- | | | | |
|------------|------------|-----------|-----------|
| a. Sharp | b. bundle | c. few | d. wander |
| e. east | f. acid | g. mixes | h. hostel |
| i. other | j. justice | k. order | l. brass |
| m. catches | n. clamped | o. lather | p. search |

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



Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FIRST SEMESTER B. Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2007

SUBJECT: ANATOMY
(COMMON FOR BOTH OLD & NEW REGULATIONS)

Thursday, January 04, 2007

Time available: 1½ Hours

Maximum Marks: 40

Answer all questions:

1. Describe the "arterial supply" of the heart.

(10 marks)

2. Write briefly on:

2A. Kidney.

2B. White fibro cartilage.

2C. Cranial Nerves.

2D. Testis.

2E. Structure of bone.

2F. Thyroid gland.

(5×6 = 30 marks)

