

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FIRST SEMESTER B. Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2006

SUBJECT: ANATOMY

(COMMON FOR BOTH OLD & NEW REGULATIONS)

Monday, January 02, 2006

Time available: 1½ Hours

Maximum Marks: 40

Answer ALL questions.

1. Name the chambers of heart and describe the "right atrium" in detail.

(2+8 = 10 marks)

2. Write briefly on:

2A. Kidney.

2B. Pleura.

2C. Spinal cord.

2D. Ovary.

2E. Pancreas.

2F. Blood supply of a long bone.

(5×6 = 30 marks)



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FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2006

SUBJECT: PHYSIOLOGY

(COMMON FOR BOTH OLD & NEW REGULATIONS)

Tuesday, January 03, 2006

Time available: 1½ Hours

Maximum Marks: 40

✍ Answer all questions

- 1A. Name the site of erythropoiesis in adults. List four factors influencing erythropoiesis. Define polycythemia and give two causes for it.
(1+2+1+1 = 5 marks)
- 1B. Define arterial blood pressure and give its normal value. Mention any four factors maintaining blood pressure. Give the location of baroreceptors.
(1+1+2+1 = 5 marks)
- 1C. Define the following terms and give their normal values:
i) Vital capacity ii) Total lung capacity iii) Tidal volume
iv) Residual volume v) Dead space
(1×5 = 5 marks)
- 1D. Mention one action each of glucagon and insulin. Give the normal range of fasting blood glucose. Give two features of diabetes mellitus.
(2+1+2 = 5 marks)
- 1E. Name three ascending tracts of spinal cord. Name four sensations perceived from the skin.
(3+2 = 5 marks)
- 2A. Define action potential. With the help of a graph show the different components of nerve action potential.
(1+2 = 3 marks)
- 2B. Name three enzymes of pancreatic secretion. Give three functions of pancreatic juice.
(1½+1½ = 3 marks)
- 2C. List three functions of kidney.
(3 marks)
- 2D. Define the terms: i) Ovulation ii) Menopause iii) Menarche
(3 marks)
- 2E. Name the receptor for: i) Hearing ii) Taste iii) Dimlight vision.
(1×3 = 3 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2006

SUBJECT: ENGLISH

Wednesday, January 04, 2006

Time available: 3 Hours

Maximum Marks: 80

1. Write short notes on:

- 1A. Phonetics.
- 1B. Consonant clusters.
- 1C. Complex sentences.
- 1D. Strong and weak forms.
- 1E. Stress.
- 1F. Main parts of the tongue and their uses.
- 1G. Form words.
- 1H. Monophthongs.

(2×8 = 16 marks)

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

- 2A. Don't enter the house with your muddy feet.
- 2B. Oranges are cheaper in Ooty.
- 2C. Have you ever seen a Flying Saucer?
- 2D. We have found this cottage comfortable.
- 2E. Practise and you can improve your spoken English.
- 2F. They are going to increase production.
- 2G. Did you wash your hands before eating food?
- 2H. It is difficult to climb up a steep hill.

(½×8 = 4 marks)

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

- 3A. Finish the work now.
- 3B. The function was a great success.
- 3C. People did not find any help.
- 3D. Some people like to sleep in the open during summer.
- 3E. The lion allowed the mouse to go.
- 3F. The boys and girls could not reach school in time.
- 3G. The train reaches the station late on some days.
- 3H. She does not wear fashionable clothes.

(¼×8 = 2 marks)

4. Complete the sentences with question tags:

- 4A. The post office is closeby,
- 4B. Children should be taught to look after themselves,
- 4C. She failed to realize her mistake,
- 4D. They all ran after the farmer's wife,
- 4E. We can buy different kinds of products at the market,
- 4F. I am not stupid,
- 4G. The library has a great collection of books,
- 4H. Many like their food hot.

(¼×8 = 2 marks)

5. Change the following sentences into passive voice:

- 5A. Mr. Smith earns a lot of money.
- 5B. We can see wild animals in zoos.
- 5C. The wind blew my hat.
- 5D. The richman gave his son a present.
- 5E. Fire destroyed the house.
- 5F. Mr. Brown has taught us English.
- 5G. Snow covered the green fields.
- 5H. He has made a few mistakes.
- 5I. They were buying new clothes for the festival.
- 5J. People will never believe you.

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

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

- 6A. All his calculations have been proved to be wrong by the experts.
- 6B. A lot of wheat is grown in the Punjab.
- 6C. This house was built twenty years ago by my grandfather.
- 6D. The murderer is going to be hanged next Monday.
- 6E. These shoes are being made in Italy.
- 6F. This film has atleast been seen by five million people.
- 6G. I have never been bitten by a dog.
- 6H. His message could be understood by everyone.
- 6I. I was asked my name and address by the policeman.
- 6J. Many children are spoiled by their grand-parents.

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

7. Put the verbs in the bracket in their right forms:

- 7A. She _____ for the job a month ago. (apply)
- 7B. He foolishly bought a new car before he _____ his old one. (sell)
- 7C. The thief _____ window when the policeman saw him. (break)
- 7D. He told me that he _____ all his money. (spend)
- 7E. What _____ at 4 O'clock yesterday? (do)
- 7F. Dogs _____ their tails when they see their masters. (wag)
- 7G. I have a book that _____ to you. (belong)
- 7H. He was the most interesting person I _____ (ever meet)
- 7I. Look at him. He _____ a letter. (write)
- 7J. The girl _____ all cakes that I baked yesterday. (eat)
- 7K. We _____ for half-an-hour when tea arrived. (write)
- 7L. I _____ clothes on Sunday between 10 and 11 in the morning. (wash)

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

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

- 8A. He was tired. He decided to rest. Begin with 'As
- 8B. I am sorry that I am late. Begin: I'm sorry to
- 8C. Father is kind as mother. Begin: Mother
- 8D. As he was walking to the river, he saw a crocodile. Begin: Walking
- 8E. He walked ten miles. Then he felt tired. Begin: He did not
- 8F. Try this sweet. You may like it. Begin: If
- 8G. She wrote a letter which was interesting. Begin: She wrote an
- 8H. Buy your ticket now. Unless you do, you may get into difficulties. Begin: Unless...
- 8I. He is a boy scout. He knows how to put up a tent. Begin: Being
- 8J. A hut is not so big as a house. Begin: A house
- 8K. This exercise is so difficult for me to do. Begin: This exercise is too
- 8L. You shouldn't enter the room. The walls..... use the right form of paint.

- 7I. Did the noise frighten you? Begin: Were you
- 7N. Why are you sad? Can you tell me. Begin: Can you.....
- 8O. 'I have something to give you,' I said to her. Begin: I told her that.....
- 8P. Roopa said to the doctor, 'My son doesn't like vegetables'. Begin: Roopa told
- 8Q. 'Is it a mixed School?' I said to Raj. Begin: I asked Raj.....
- 8R. Did you understand the instructions? Begin: The teacher asked me.....
- 8S. 'Don't sit on bed' Said Ravi. Begin: Ravi told me
- 8T. 'Why did you change your job Priya?' said Gulabi. Begin: Gulabi asked

(1×20 = 20 marks)

9. Say whether the following statements, with reference to phonetics and US English are **true** or **false**:

- 9A. Phoneme |b| is a voiceless bilabial sound.
- 9B. The tongue is an active articulator.
- 9C. All consonants are voiced.
- 9D. Phoneme |p| is pronounced in the same way wherever it occurs.
- 9E. /ɜ:/ is a central vowel.
- 9F. In the English word syllable there are two syllables.
- 9G. In the English word bags, s is a morpheme.
- 9H. English word dangerous is a free morpheme.
- 9I. The phoneme /r/ is not pronounced when it occurs initially.
- 9J. UK English uses twenty vowels but US uses only ten.
- 9K. /r/ is retroflexed in US pronunciation.
- 9L. In US English /ɜ:/ as in girl is pronounced differently.
- 9M. The word Cannibal has been borrowed by US from the native Americans.
- 9N. Go slowly is the American way to say not to go fast.
- 9O. Druggist is the American English to mean chemist.
- 9P. Vest in US English means pant in UK English.
- 9Q. Spud is used by US English to mean potato.
- 9R. The spelling of the word honour is honor in US English.
- 9S. For a song is an idiom in US English. It means in a hurry.
- 9T. 'Raw vegetables' is called rabbit food in US English.

(1/4×20 = 5 marks)

10. Fill in the blanks using correct words relating to phonetics and US English:

- 10A. There are _____ diphthongs in English phonemic system.
- 10B. The letter _____ is never pronounced in the word better when it is in isolation.
- 10C. The word beautiful has _____ syllables.
- 10D. The phoneme /e/ is a _____ vowel.
- 10E. When voiceless phonemes are made vocal cords _____.
- 10F. The English word totalled is spelt _____ in US English.
- 10G. In American slang What's up? means _____.
- 10H. The /ɜ:/ phoneme as in turn is pronounced with _____ in it.
- 10I. Button your lip in US English means _____.
- 10J. Letter box is _____ in US English.

(1/2×10 = 5 marks)

11. Transcribe the following into English words:

- a. /mʌðə/ b. /leɪtə/ c. /sent/ d. /kraɪd/
- e. /feɪməs/ f. /gri:tɪŋ/ g. /laʊf/ h. /ʃuəli/

(1/4×8 = 2 marks)

12. Put the following into I. P. notation.

- 12A. angle
- 12B. pleasure
- 12C. order
- 12D. cotton
- 12E. middle
- 12F. burns
- 12G. matches
- 12H. friend
- 12I. queen
- 12J. stepped
- 12K. centre
- 12L. envy
- 12M. living
- 12N. uncle
- 12O. thrill
- 12P. rabbit

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

