MANIPAL UNIVERSITY

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

SUBJECT: ANATOMY

Monday, April 05, 2010

Time: 10:00 – 11:30 Hrs.   Maximum Marks: 40

✍ **Answer ALL questions.**

1. Describe the coats of the eyeball with the help of a diagram.

(10 marks)

2. **Write briefly on:**

2A. Pons

2B. Ureter

2C. Pancreas

2D. Left lung

2E. Uterus

2F. Prostate

(5×6 = 30 marks)

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

SUBJECT: PHYSIOLOGY

Tuesday, April 06, 2010

Time: 10:00 – 11:30 Hrs.   Maximum Marks: 40

1.   **Essay questions:**

1A.   What is the normal white blood cell count in blood ? Classify the white blood cells. Mention three functions of white blood cells.

1B.   Draw and label an electrocardiogram (ECG) from limb lead II. Mention the cause of each wave.

1C.   List four functions of hypothalamus. Explain any one of them.

1D.   Draw an oxygen hemoglobin dissociation curve and list two conditions where it shifts to right

$(5 \times 4 = 20$ marks)

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

2A.   Draw the labeled diagram of the neuromuscular junction.

2B.   Define glomerular filteration rate. Give its normal value.

2C.   List two gastrointestinal hormones.

2D.   List two functions of cortisol.

2E.   List two functions of testes.

2F.   What is myopia and how is it corrected?

2G.   Define cardiac output and give its normal value.

2H.   Give the normal haemoglobin level in an adult male and mention one function of hemoglobin.

2I.   Define tidal volume and give its normal value.

2J.   List two enzymes of pancreatic juice.

$(2 \times 10 = 20$ marks)

MANIPAL UNIVERSITY

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

SUBJECT: ENGLISH

Wednesday, April 07, 2010

Time: 10:00 – 13:00 Hrs.   Maximum Marks: 80

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1.   Write short notes on any EIGHT of the following.

1A.   oral phonemes

1B.   front vowels

1C.   coda

1D.   elision

1E.   stress in words

1F.   US pronunciation

1G.   strong and weak forms

1H.   pairs of minimal contrast

1I.   plosives

1J.   monophthongs

(3×8 = 24 marks)

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

2A.   I buy ready-to-wear clothes <u>here</u>.

2B.   No body <u>knows</u> where the wind goes.

2C.   Don't you know that <u>lying</u> is bad?

2D.   <u>Laughter</u> makes the world go round.

2E.   Knock at the door <u>and</u> peep in.

2F.   <u>Stop</u> the stranger entering the house.

2G.   The dog ran <u>after</u> the farmer's wife.

2H.   <u>Ah!</u> This is what I was looking for.

(½×8 = 4 marks)

3.   Transform the following sentences negatives first and then into questions.

3A.   The girls wanted to sing and dance.

3B.   Sujata wants to go home.

3C.   I am sensitive to your remarks.

3D.   He spoke angrily to his sisters.

3E.   People rose in protest against new taxes.

3F.   He broke the law foolishly.

3G.   Suraj will become famous soon.

3H.   Snakes hiss.

3I.   She can sing songs of several languages.

3J.   I must tell my parents everything.

(1×10 = 10 marks)

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4. **Rewrite the following sentences in to passive if they are in active and into active if they are in passive form:**

4A. They don't like strangers in this country.
4B. Three hundred year ago they fought a big battle here.
4C. The lion was caught in a trap.
4D. The telephone wires have been cut.
4E. He will tackle the problem.
4F. The boys were flying kites.
4G. They elected Raj leader.
4H. I was surprised by his behaviour
4I. The king gave the soldiers new weapons.
4J. They had done good work.

(½×10 = 5 marks)

5. **Use the correct form of verbs given to fill in the blanks:**

5A. I _____ new car. Do you want to see it? (buy)
5B. In five years I _____ six thousand kilos of paddy (grow)
5C. Do not shout like this; the child _____ (sleep)
5D. Don't talk while you _____ your food. (eat)
5E. The patient _____ before the doctor arrived. (die)
5F. Thomas _____ to improve his spoken English for several years. (try)
5G. A vegetarian is a person who never _____ meat. (eat)
5H. Ashok _____ the homework by the time the dinner is ready. (complete)
5I. This house is going _____ down soon. (pull)
5J. Had I known you were coming I _____ at home. (stay)

(½×10 = 5 marks)

6. **Re write as instructed:**

6A. Guru said to me, 'You look like a scarecrow.'
   Begin: Guru told me that …
6B. Father said to his son, 'Did you forget to wind the clock?'
   Begin: Father asked his son …
6C. The tourist said to me, 'Where is the best place to buy a leather bag?'
   Begin: The tourist asked me …
6D. Anu said, to Rani, 'I slept very late yesterday'.
   Begin: Anu told Rani …
6E. The boy said to his mother, 'Please take me to the market today'
   Begin: The boy requested …
6F. Roopa said to her friend, 'Don't sit on the door mat.'
   Begin: Roopa asked her friend
6G. Rehman said to me, 'Why did you punish my brother?'
   Begin: Rehman asked me
6H. Ruskin bond is one of the greatest Indian writers.
   Use: greater
6I. Kumar is as young as Chethan.
   Use: younger
6J. No other place in this state gets as much rain as this place.
   Use: more

(½×10 = 5 marks)

7. **Are the statements given below in respect of phonetics are true or false?**

7A. There are six stop phonemes in English phonemic system.

7B. When the phoneme /m/ is articulated both the lips meet.

7C. No words in English end with the phoneme /^/

7D. 'Sticky', a word in English is a bound morpheme.

7E. 'Leaves' has a voiceless phoneme at the end of the word.

7F. Except in one difference /s/and/z/ have the same manner and place of articulation.

7G. The back of the tongue is termed lamina.

7H. In American English a local is a bus or train that does not stop at all regular stopping place.

7I. The word grass is pronounced /gra:s/ by US English speaker.

7J. 'Apartment' is flat in British English.

(½×10 = 5 marks)

8. **Re-write the sentences given as directed without sacrificing the meaning of the original:**

8A. I don't know how I should convince you.
Use: to convince

8B. He was such a good person that everyone respected him.
Use: and

8C. I am tall and my father is very tall.
Use: taller

8D. The moment the teacher enters the class the pupils stop talking.
Use: as soon as

8E. Only after you have cleared all the papers, I shall let you go.
Use: unless

8F. I speak the truth. I am not afraid of it.
Combine the sentences.

8G. To hear the sound of wind is delightful.
Begin: It …

8H. If it rains, the match will not be played.
Begin: The match will be …

8I. A photographer is a person who takes photographs.
Begin: A person …

8J. Think before you leap.
Begin: Do not …

(½×10 = 5 marks)

9. Fill in the blanks with suitable words.

9A. The total number of phonemes in English phonemic system is _____

9B. Vocal cords do not vibrate when _____ phonemes are articulated.

9C. When oral phonemes are articulated _____ passage is blocked.

9D. Where do you live? Usually this question is asked with _____ intonation.

9E. Three semi vowel phonemes are _____.

9F. _____ is a voiceless labio dental phoneme.

9G. In the word 'benches', the last two phonemes are _____.

9H. US English speakers use _____ vowel phonemes.

9I. American English speakers have borrowed some words from the native Americans. One example is _____.

9J. _____ is prominently pronounced by US English speakers.

(½×10 = 5 marks)

10. Match the following:

10A.	paper	:	syllabic consonant
10B.	balloon	:	begin the journey
10C.	colour	:	odor
10D.	two uncles	:	compound word
10E.	mutton	:	clear l
10F.	∏	:	central vowel
10G.	gun powder	:	aspirated p [pʰ]
10H.	hit the road	:	stop talking
10I.	button your lips	:	hiatus
10J.	odour	:	overeat

(½×10 = 5 marks)

11. What are the following in US English?

11A. petrol

11B. tram

11C. parafin

11D. cinema

(½×4 = 2 marks)

12. Transcribe the following in phonemic symbols:

12A. laugh

12B. heaven

12C. soon

12D. bull

12E. tune

12F. winner

12G. fall

12H. dirt

12I. sleep

12J. jam

(½×10 = 5 marks)

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