MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

FIRST SEMESTER B. Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2005

SUBJECT: ANATOMY
(COMMON FOR BOTH OLD & NEW REGULATIONS)
Monday, January 03, 2005

Time available: 1½ Hours   Maximum Marks: 40

❖ *Answer all questions*

1.   Name the parts of the respiratory system. Describe the lungs in brief.

(10 marks)

2.   Write briefly on:

2A. Gall bladder.

2B. Testis.

2C. Hyaline cartilage.

2D. Paranasal air sinuses.

2E. Crainal nerves.

2F. Pituitary gland.

(5 × 6 = 30 marks)

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FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2005

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

Tuesday, January 04, 2005

Time available: 1½ Hours   Maximum Marks: 40

❖ *Answer all questions*

1A. In a tabular column indicate the agglutinogens and agglutinins present in ABO and Rh system of blood grouping. State Landsteiner's law.

1B. Define and give the normal values of:

    i.   Cardiac output   ii.   Heart rate   iii.   Cardiac cycle

    iv.   Arterial blood pressure   v.   Stroke volume.

1C. Draw a normal spirogram and indicate there in the following lung volumes with their normal values.

    i.   Vital capacity   ii.   Residual volume

    iii.   Inspiratory reserve volume   iv.   Expiratory reserve volume

    v.   Tidal volume.

1D. Enumerate any five actions of thyroxine.

1E. Tabulate the differences between the upper motor neuron lesion and lower motor neuron lesion.

$(5 \times 5 = 25 \text{ marks})$

2A. Tabulate any three differences between smooth muscle and skeletal muscle?

2B. Name the bile salts and list their functions.

2C. Draw a neat labelled diagram of a nephron.

2D. List the functions of estrogen.

2E. Name the receptors for:

    i.   Bright light vision.   ii.   Hearing   iii.   Olfaction   iv.   Taste.

$(3 \times 5 = 15 \text{ marks})$

MANIPAL ACADEMY OF HIGHER EDUCATION

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FIRST SEMESTER B.Sc. H.I.A. DEGREE EXAMINATION – JANUARY 2005

SUBJECT: ENGLISH

Wednesday, January 05, 2005

Time available: 3 Hours   Maximum Marks: 80

1.   Answer any **FIVE** of the following questions each in about fifteen lines.
1A.   Why was the Old Gentleman taken to the hospital?
1B.   How did the judge decide the dispute between the farmer and the maid servant?
1C.   What are and were the superstitions on cats?
1D.   Why did Albert Border go to meet Mr. Crossett?
1E.   What was the reaction of the rich couple when they saw Jack asleep alongside in the shade?
1F.   What happened to Olivia in the end?
1G.   How was Lincoln assassinated?

(5×5= 25 marks)

2.   Rewrite the following into negatives and then into questions:
2A.   Business people write lots of letters.
2B.   The cat plays with my toy bear every day.
2C.   I remembered to revise my answers.
2D.   The doctor will give the patients some advice.
2E.   We planted some trees near our house.

(10 marks)

3.   Name the parts of speech of the words underlined.
3A.   They quarrelled <u>among</u> themselves and went to court.
3B.   Ravi and Rani go to the same school. They walk to school <u>everyday</u>.
3C.   Some of the <u>strict</u> rules are difficult to follow.
3D.   Take some good rest and feel the <u>difference</u>.
3E.   <u>If</u> you fail to find the way, give me a call.

(1×5= 5 marks)

4.   Change the following sentences into passive voice:
4A.   The postman is bringing a big parcel.
4B.   The boys and girls have cleaned the surrounding.
4C.   They made some changes.
4D.   Reena might visit us next week.
4E.   The elephant will carry the king on its back.

(1×5= 5 marks)

5.   Rewrite sentences into active voice.
5A.   All the Panchathantra stories can be found in this book.
5B.   What I have said should be remembered.
5C.   The workers were being given the last warning by the boss.
5D.   The hall has not been carefully painted by the painter.
5E.   A feature film is shown every Sunday by the exhibitors.

(1×5= 5 marks)

6. Rewrite the following sentence into degrees of comparison as directed.
6A. My little finger is not as fat as my thumb.(into comparative degree).
6B. Barathiar was as famous as Tagore.(into comparative degree).
6C. Kolkata is the crowdest city (into positive degree).
6D. Kingfisher is more beautiful than many other birds (into superlative degree).
6E. No other animal is as faithful as the dog.(into superlative degree).

(1×5= 5 marks)

7. Use the right form of the verbs given in the brackets to give grammatical and meaningful sentences.
7A. We often _____ wild animals in forests.(find)
7B. When mother _____ cooking, she watched T.V.(finish)
7C. Look! The glass window is broken. Someone _____ cricket here(play)
7D. We _____ a new house when my father gets a bank loan. (build)
7E. Can you hear the song? My sister _____.(sing)

(1×5 = 5 marks)

8. Put the following in the reported speech.
8A. Tom said to Raj, 'I'm sorry that I'am late.'
8B. Roopa said to Mala, 'Why are you in a hurry?'
8C. The shopman said to his customer, 'Are the grapes sour?
8D. The music director said to his friend 'can you remember when he heard the song 'last?'
8E. The stranger said to the telephone operator, 'May I use your telephone to send a message?'

(1×5= 5 marks)

9. Use the right question tags:
9A. They aren't arriving at six, _____.
9B. Sugar sweetens your tongue, _____.
9C. John answered well, _____.
9D. Robbers couldn't break open the safe, _____.
9E. They would be hear in a few minutes, _____.

(1×5 = 5 marks)

10. Use the right articles in the gaps where necessary:
10A. They live in _____ underground cell.
10B. This is _____ best park in our city.
10C. She will be back in _____ hour.
10D. _____ watch I am wearing is a present from my uncle.
10E. I think it's _____ useful suggestion.

(1×5 = 5 marks)

11. Fill in the blanks with suitable preposition:
11A. Don't be _____ such a hurry. There is plenty_____ time.
11B. Mix it _____ sugar and dissolve it _____ water.
11C. Look _____ the blackboard and write down everything _____ your exercise books.
11D. I refuse to bargain _____ you _____ the price.
11E. Don't listen _____ his words. It is full _____ nonsense.

(1×5 = 5 marks)

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