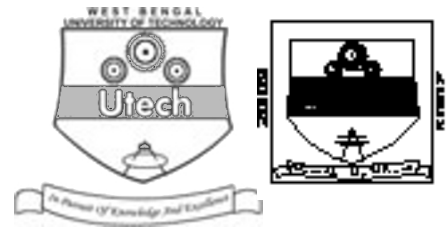


ANATOMY, PHYSIOLOGY & HEALTH EDUCATION (APHE) (SEMESTER - 2)

CS/B.PHARM (O)/SEM-2/PT-205/09



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the Candidate

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CS/B.PHARM (O)/SEM-2/PT-205/09

ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009

ANATOMY, PHYSIOLOGY & HEALTH EDUCATION (APHE) (SEMESTER - 2)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

- This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
- In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
 - For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
- Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
- Read the instructions given inside carefully before answering.
- You should not forget to write the corresponding question numbers while answering.
- Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
- Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
- You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
- Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

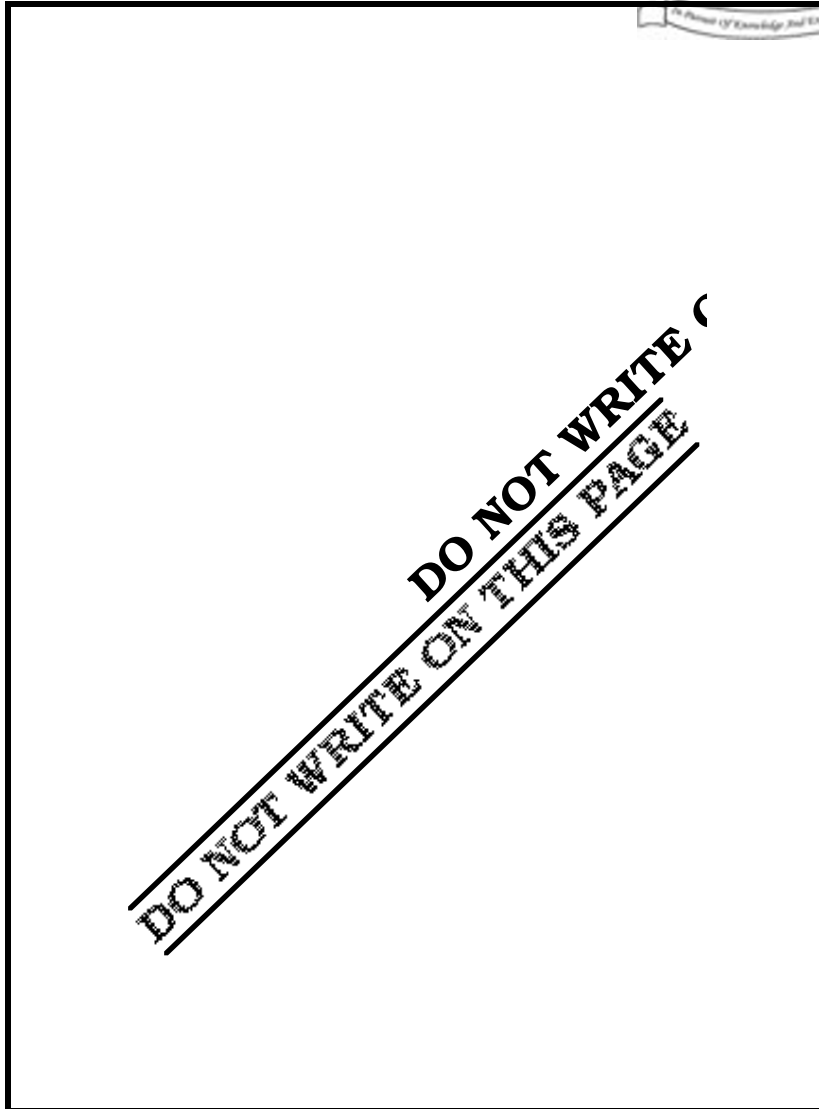
FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

Question Number	Group – A					Group – B					Group – C					Total Marks	Examiner's Signature
Marks Obtained																	

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Head-Examiner/Co-Ordinator/Scrutineer

2411 (15/06) (O)



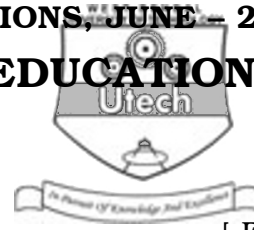
<http://www.makaut.com/>

2411 (15/06) (O)

<http://www.makaut.com/>



ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009
ANATOMY, PHYSIOLOGY & HEALTH EDUCATION (APHE)
SEMESTER - 2



Time : 3 Hours]

[Full Marks : 70

GROUP – A

(Multiple Choice Type Questions)

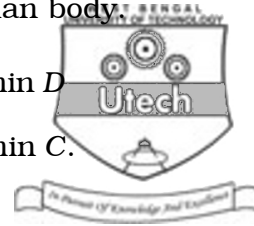
1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10
- i) The portion in between two Z-discs in myofibril is called
- a) H-band b) Sarcomere
- c) I-band d) Myosin.
- ii) Long bones are covered by a vascular membrane, called
- a) Pericardium b) Periosteum
- c) Osteocyte d) Osteoplast.
- iii) The largest lymphoid organ of human body is
- a) liver b) spleen
- c) adrenal gland d) tonsil.
- iv) Human saliva contains the enzyme
- a) Lipase b) Pepsin
- c) Trypsin d) Ptyalin.
- v) Identify the bile salt from the following :
- a) Sodium tartrate b) Sodium citrate
- c) Sodium taurocholate d) Sodium bicarbonate.

2411 (15/06) (O)



vi) Identify the vitamin, which is synthesized in human body.

- a) Vitamin A
- b) Vitamin D
- c) Vitamin E
- d) Vitamin C.



vii) The specific gravity of blood is

- a) 1.055
- b) 1.088
- c) 1.044
- d) 1.033.

viii) Blood plasma is a fluid which is

- a) straw coloured
- b) brown coloured
- c) red coloured
- d) colourless.

ix) Universal Donor is

- a) Group A
- b) Group B
- c) Group O
- d) Group AB.

x) Hyaline cartilage is found in

- a) heart
- b) goblet cell
- c) on the ends of long bones that form joints
- d) alveoli of the lungs.

xi) Erythroblastosis foetatis is a haemolytic disease of newborn developed as a result of when foetus and mother is respectively

- a) Rh +ve and Rh -ve
- b) Rh -ve and Rh +ve
- c) Both Rh +ve
- d) Both Rh -ve.

xii) Clotting factor VI is

- a) Fibrinogen
- b) Prothrombin
- c) Laki-Lorand factor
- d) Accelerin.



5

GROUP – B**(Short Answer Type Questions)**Answer any *three* of the following questions.

3 × 5 = 15



2. Draw the structure of a neurone with proper labeling. What is the difference between a myelinated and non-myelinated nerve fibre ? 4 + 1
3. Write the characteristics of cardiac muscle with proper diagram. What are the differences between skeletal and cardiac muscle ? 3 + 2
4. What are the functions of blood ? 5
5. Define First-Aid. Describe the first aid treatment in case of snake bite. 2 + 3
6. Write a short note on balanced diet. 5

GROUP – C**(Long Answer Type Questions)**Answer any *three* of the following questions.

3 × 15 = 45

7. Describe the characteristics of synovial joints with proper diagram. Define rheumatoid arthritis and describe the pathology, symptoms and treatment of the disease. 7 + 8
8. Write a note on ABO-blood grouping system. Schematically show the intrinsic and extrinsic pathway of blood clotting. 8 + 7
9. How lymph is formed and circulated in the lymphatic system ? What are the functions of lymph nodes ? Write a short note on lymphedema. 5 + 5 + 5
10. Write a note on the anatomy of Respiratory System and organs associated with this system. 15
11. What is Myasthenia gravis ? Describe its Auto-immune-feature. What are Neonatal Myasthenia Gravis and Congenital Myasthenia Gravis ? 3 + 2 + 5 + 5

END