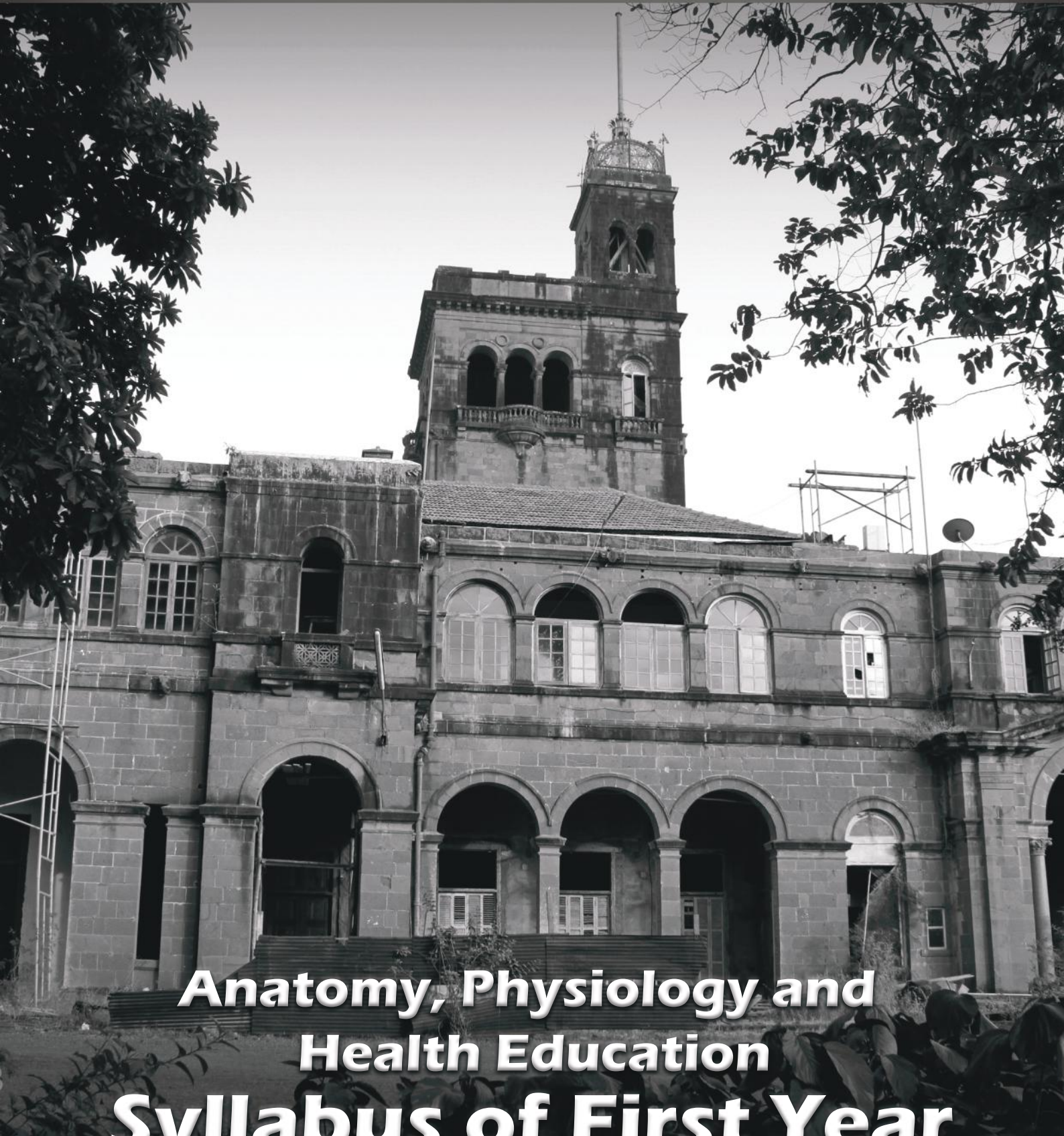




**Savitribai Phule  
Pune University**

شیوه نوین  
رهجویان عصر دانش



**Anatomy, Physiology and  
Health Education  
Syllabus of First Year  
B PHARM**

(LH 4253)

AUGUST 2015

Sub Code: 4253

**B.PHARM. EXAMINATION  
FIRST YEAR  
PAPER III – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION**

*Q.P. Code : 564253*

**Time: Three hours**

**Maximum: 100 marks**

**I Essays: (2 x 20 = 40)**

1. a) Name the water soluble and fat-soluble vitamins with their physiological role.  
b) Write their deficiency disorders and how to prevent them.  
c) State the necessity for balanced diet and its composition.
2. a) Draw the structure of ear and label.  
b) How the impulses are formed and conducted for hearing sensation?  
c) Mechanism of equilibrium.

**II. Short notes: (8 x 5 = 40)**

1. First aid for burns.
2. Name of microbial agent, mode of transmission and prevention of tuberculosis.
3. Permanent method of contraception.
4. Mechanism of skeletal muscle contraction.
5. Blood coagulation by intrinsic pathway.
6. Fetal circulation.
7. Lung volumes and capacities.
8. Hormones acting on kidney.

**III. Short answers: (10 x 2 = 20)**

1. Function of ribosomes.
2. Spermatogenesis.
3. Spinal reflex.
4. Graves disease.
5. Kwashiorkor.
6. Blood groups and their importance.
7. Nutritive value of Egg.
8. Central nervous system.
9. Posterior pituitary hormones and their functions.
10. Erythrocytic stage of malarial parasite.

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