

**Biyanigirls colleges**

**B.Sc.I Biotech.**

**Plant and animal physiology (2015-2016)**

**Time:3hr**

**Max marks: 50**

**Question no one is compulsory. Attempt any five question one from each section.**

1. Write answer in one or two line
  - a) Define pacemaker.
  - b) Write two growth regulator names.
  - c) Who discovered blood group?
  - d) Which gland secrete norepinephrine?
  - e) Write C3 plants name.
  - f) What is structural unit of kidney?
  - g) What is micturition?
  - h) Which valve present between left atria and left ventricle?
  - i) Define photoperiodism.
  - j) Where photo respiration occur?

(1x10)

**Section A**

2. Describe heart structure and its function. (10)
3. Write short notes on
  - a) Blood group b) C3 and C4 cycle(5+5)

**Section B**

1. What are the growth hormones? Explain growth hormone biosynthesis in detail. (2+8)
2. Explain physiological process of excretion. (10)

**Section C**

3. What is secondary metabolites? Give a brief detail about terpenes and phenol biosynthesis. (10)
4. Write short notes on any two
  - a) Light harvesting complex b) Thermoregulation c) Haemoglobin(5+5)

**Section D**

5. What are phytochromes? Explain nitrogen assimilation process. (3+7)
6. Explain the following
  - a) Thyroid gland b) neurons and action potential(5+5)