

**B.A.S.L.P. SEM – I (2017 COURSE) : SUMMER - 2018**

**SUBJECT: ELECTRONICS AND ACOUSTICS**

Day : **Friday**  
Date : **27/04/2018**

**S-2018-3537**

Time : **10.00 AM TO 01.00 PM**  
Max. Marks: 75

---

**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate full marks.
  - 3) Draw diagrams **WHEREVER** necessary.
  - 4) Both the sections should be written in **SEPARATE** answer books.
- 

**SECTION-A**

**Q.1** Attempt any **FIVE** out of **SIX** (5 x 3) = (15)

- a) Explain wave motion.
- b) What is T-Flip-flops?
- c) What is audiometric rooms?
- d) Define and explain sound.
- e) What is line regulation and load regulation.
- f) Write down difference between intensity and loudness.

**Q.2** Attempt any **FOUR** out of **FIVE** (4 x 5) = (20)

- a) Explain stabilizers with block diagram.
- b) What is reflection of sound wave and explain its law.
- c) Explain longitudinal waves.
- d) Draw block diagram of DC power supply and explain it.
- e) Write down the difference between periodic motion and harmonic motion.
- f) Explain counter with its types.

**SECTION-B**

**Q.3** Attempt any **FOUR** out of **SIX** (4 x 10)= (40)

- a) Explain switch mode power supply with block diagram.
- b) Write short note on artificial larynx and hearing aids.
- c) Explain electrodes, filters and pre-amplifiers.
- d) Explain ROM in details.
- e) Explain FIR and IIR Filters.
- f) Explain microphone with its type.

\* \* \*