

B.A.S.L.P. SEM – I (2017 COURSE) : WINTER - 2017
SUBJECT: ELECTRONICS AND ACOUSTICS

Day : **Wednesday**
Date : **06/12/2017**

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

W-2017-3451

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.
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SECTION-A

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

- a) Give any one application of LED.
- b) Write a short note on transformer.
- c) Explain sampling in ADC.
- d) What is logic gate?
- e) What is software?
- f) What is D-flipflop?

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

- a) Write a short note on sympathetic vibration.
- b) What is reverberations?
- c) Explain counter with its types.
- d) Convert binary no. 110001 to its equivalent decimal no.
- e) Write a short note on acoustic impedance.
- f) Explain uni-junction transistor.

SECTION-B

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

- a) Explain UPS.
- b) Draw block diagram of audiometer and explain it.
- c) Write short note on fundamental of digital filtering.
- d) What is loudspeaker and explain it in details.
- e) Explain ROM with its types.
- f) Explain ADC.

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