

**ELECTRONICS AND TELECOMMUNICATION DEPARTMENT**

Course Code: ETU101

Date: 07/11/2016

Time:

Course: Basic Electronics Engineering

Max. marks: 08

**CT - II**

1. Describe the working principle of LED and Photo-diode. 2 m
2. A Full Wave Rectifier's output is fed to a shunt capacitor filter. Explain the effect of this filter on the waveform. 2 m
3. Compare RC coupled, Direct coupled and transformer coupled amplifiers on the basis of: a) Circuit diagram, b) frequency response and c) application 2 m
4. Define the terms – a) pinch off voltage b)  $I_{DSS}$  c) Threshold voltage d) trans-conductance 2 m

**GOVT. COLLEGE OF ENGINEERING, AMRAVATI**

Date: 01<sup>st</sup> Nov. 2012

CLASS TEST 2

Time: 1hr

Subject: ETU 101 – Basic Electronics Engineering

Marks: 08

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Q1. Justify the statement with suitable diagram: “ Transistor can be used a switch”

2Mks

Q2. Solve any two (2)

6Mks

- a. Sketch the cross section of n-channel Depletion MOSFET and explain how it differs from Enhancement MOSFET ?
- b. Explain the working of Transformer Coupled Amplifier
- c. Explain the need of biasing and discuss the voltage divider biasing method for CE configuration.

Government College of Engineering, Amravati

Date : 16<sup>th</sup> Oct., 2015      Session Class Test -II      Time : 40 Min

Marks: 8

Course code & Title: ETU101 - Basic Electronics Engineering

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Compulsory questions.

(02 x 03Mks)

- ✓ Qu.1. Comment on the input and output characteristics of BJT connected in common base configuration.
- ✓ Qu.2. "Current amplification occurs in a Bipolar Junction Transistor"; Justify the statement in detail with suitable diagram.
- Qu.3. Write a note on RC coupled amplifier with its frequency response.

OR

(01 x 2Mks)

- ✓ Qu.4. Explain the application of transistor as a switch.
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Govt. College of Engineering, Amravati.

Time : 1Hr.

Date : 29<sup>th</sup> Oct. 2010

Marks: 8Mks.

Session Class Test - 2

Course code & Name: ETU101 Basic Electronics Engineering

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Qu.1. Solve any two (2).

2x2= 4 Mks

- a. What is the need of biasing? Explain voltage divider biasing method.
- b. Define  $\alpha$  and  $\beta$  and explain the relation between  $\alpha$  and  $\beta$ .
- c. Explain with circuit diagram working, advantage & disadvantages of transistorized RC coupled amplifier. 666

Qu.2. Explain construction working and V-I characteristics of

- a. N-channel depletion type MOSFET