

B.E. 2nd Semester (Regular) Examination, 2016-17

Subject : Basic Electronics

Paper : ECE-201

Time: 3 Hours

Full Marks: 70

*Answer Question No.1 and any five from the rest.**Answer all part-questions under same Question. No. in the same place*

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2×5=10

1. Answer any five questions:

- What is the advantage of extrinsic semiconductor over intrinsic semiconductor?
- Justify the position of Fermi level in intrinsic semiconductor.
- What happens to the contact potential in p-n junction on forward bias?
- What happens to the depletion width of p-n junction on reverse bias?
- For a heavily doped semiconductor why minority carriers are low?
- With rise in temperature why in semiconductor the resistance decreases?
- What is the difference between diffusion and drift current?

- Show the effect of biasing on the energy band diagram of a p-n junction diode. 2
 - Draw the minority carrier concentration of a p-n junction in forward and reverse biased situation. 3
 - What happens to the depletion width when we apply reverse bias to the p-n junction diode? Explain. 2
 - Draw and explain the static characteristic of a p-n junction diode. 2
 - Draw the dynamic curve from the static characteristic of a p-n junction diode. 3

3. (a) Explain the working principle of Bridge rectifier circuit. Derive the expression for

- DC current
- ripple factor
- rectifier efficiency

2+3=5

- What is filter? Show the effect of C-filter on the output of a full-wave rectifier. 1+2=3

- A full wave rectifier circuit is fed from a transformer having a center tapped secondary winding. The r.m.s. voltage from either end of secondary to center tap is 30V. If the diode forward resistance is 2Ω and that of the half secondary is 8Ω , for a load resistance of $1\text{ k}\Omega$ calculate,

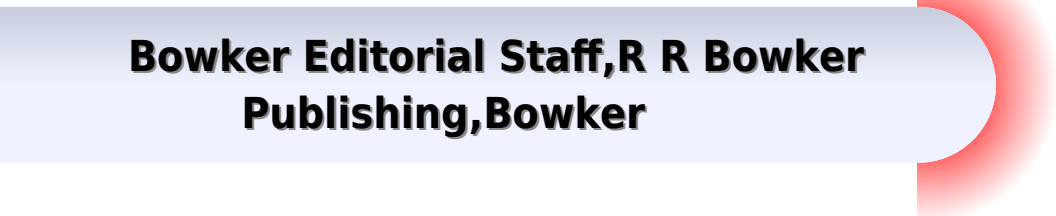
- power delivered to load
- peak inverse voltage
- ripple factor
- efficiency of rectification

4

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14 N1 Industrial Electronic Question Paper

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Proceedings of the ... Annual Conference of the IEEE Industrial Electronics Society IEEE Industrial Electronics Society.
Conference, 2003 Environment Abstracts ,1985 **European Control Conference 1995** ,1995-09-05 Proceedings of
the European Control Conference 1995 Rome Italy 5 8 September 1995 CAD/CAM Abstracts ,1992 **Publications of**
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NBS Special Publication ,1968 *Armenia and the Belt and Road Initiative* Sos Khachikyan, Jagannath Panda, Ralph
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Industrial Reports ,1970 Environment Abstracts Annual 1989 Bowker Editorial Staff, R R Bowker
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