SC

Printing Page(s) : 1 **Paper Code :DSC-304**

Roll No. | | | | | | | | | | |

B.Sc(PCM)-20
3rd Year Examination, Calendar Batch 2015
Physics-VI (Electronics)

Time : 3 Hours] *[Max. Marks : 100*

***Note**. Attempt any **five** questions. Each questions carry equal marks.*

Q.No.1 What is MOSFET? Give its construction and working principle. How does it differ from FET.

Q.No.2 What do you understand by hybrid parameters? What are their dimensions? How will you measure h-parameters of a linear circuit?

Q.No.3 Explain the working of a transformer coupled transistor amplifier. Discuss its frequency response curve.

Q.No.4 Define atomic packing fraction. Calculate its value for simple cubic, face centred cubic and body centred cubic lattices.

Q.No.5 What do you mean by feedback? Discuss the principles of negative feedback in amplifiers.

Q.No.6 Discuss the characteristics of common emitter p-n-p transistor.

Q.No.7 How are h-parameters of a CE transistor amplifier measured experimentally? Write the limitation of h- parameters.

Q.No.8 What is bipolar junction transistor? Distinguish between two types of transistors and explain their working.