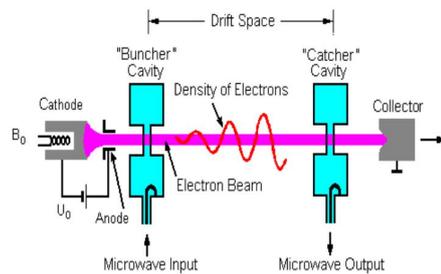

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RTMNU University Question Paper (Summer-2017) NKT/KS/17/7560
Solution

B.E. Eighth Semester (Electronics & Telecommunication) (C.B.S.)
Microwave & Radar Engineering

1. a) Explain two cavity Klystron with Applegate diagram.

Ans:



Two cavity Klystron amplifier is basically a velocity modulated tube.

Here a high voltage electron beam is formed, focused and sent down along the glass tube through an input cavity, **Buncher**.

Then it is sent down to a field free drift space and then to an output cavity, **Catcher** to anode.

The anode is kept at a positive potential with respect to cathode.

The electron beam passes through a gap A consisting of two grids of the Buncher cavity separated by very small distance and two other grids of the Catcher cavity with a small gap B.

Operation:

The RF signal to be amplified is used for exciting the input Buncher cavity thereby developing an alternating voltage of signal frequency across the gap A.

The electron beam is travel through a cylindrical drift tube in a straight path by an axial magnetic field.

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