Grade	12 AEE	Subject	Term 3- Electronics Principles and App. AEE70
Name		ID	
Section	01	Date	W3-WS1

1) Tick the correct applications of Transistor in the following list.
   - **Mechanical joints,**
   - **Electronic Switch,**
   - **Tiers,**
   - **Amplifiers,**
   - **Computers,**
   - **Mechanical valves.**
   - **Electrical and Electronic appliances**

2) Match each device with its name.:

#	Device	Match	Name
1			**BJT Transistor**
2			**Vacuum tube, the early transistor model**

3) Compare between the tube transistor and the BJT by selecting the right features in the lists. Copy the brawn word to its relevant place.

Feature	Tube transistor	BJT transistor
Size **Compact, large**		
Cost **Low, High**		
Operating voltage **Low, High**		
Resistance to chocks and vibration **Low, High**		
Operating life **Short, Long**		

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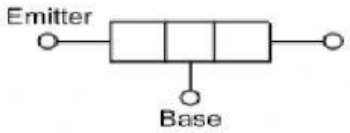
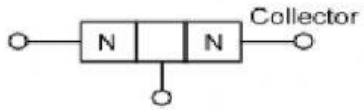
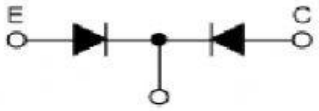
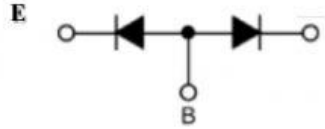
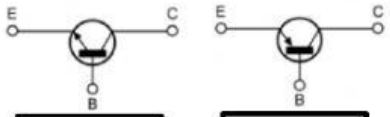
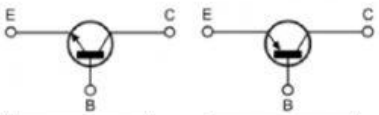
4) Copy the works from the bank to their correct blank.

[Bipolar Junction Transistor, resistance circuit, high, bipolar, PN junctions, low resistance, junction, three, transfer, Transistor, Bulky Junction Transfer]

a) ……. is derived from the combination of two words,……..and…..…… It means that it is a device, which transfers a low……..…….. into a circuit having …… resistance.
b) Transistors in general are classified as unipolar or ……. type.
c) The BJT transistor has two ……. and ……. terminals.
d) Therefore, the BJT stands for ……..

5) Complete the following table

	PNP TRANSISTOR	NPN TRANSISTOR
Construction		
Two-diode analogy		
Symbol **Tick the correct**	 *PNP Transistor*	 *NPN Transistor*

6) Identify the three BJT transistor classifications and the cooling system?
[Low power, Medium power, High power, Heat sink]

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