OTEC Principles OTEC: 3 The principles oTEC systems is that those is a Temperature difference of w water cet to bottom and Topy the Jeq. - this Temperature combe used to operate 9 feat engine and most of Radiation is being absorbed at the surface layer g water. Typus g otec Systems &-There are two Types otte Systems -1) Closed egels fystern of Anderson cycle fystern. 3 open cycle system of Clause cycle system.

3 Hybrid cycle.

openingete System of Claude Systems-Jacuum Dumps 1) Non-condendative goses. Genurator You present Steam As 1 +- Flash Evaporator: Vs Extremst 245/200 WATER WELTER from ocean V Condendate to liquid . swiface. (Brane) 06000 Depth It Gold water from comdepty In this system, the worm water from o Gogn surface & admitted through the deanator to to flash evaporator. which is maintained under high Vacumm

-9 As a regalt to low pressure Strom 18 genera Text de to thrott. Eling effect on a the remainder Ciquid is discharged back to the ocean of Hige - This low prushwa Steam having very high specific Volume is supplied to turbine where it experies. and mechanical power to developed is converted Into the electrical power by the generator. 2. The exhaust Steens from two bine is discharged Into a alfact contact Type Heat exchanger and makes with the cold water drown from owan at a depth & about I to 2km 7. The mixtwee of condensed steems and ocean cold water are discharged. Into the ocean * Confations & OTEC System &following are the limitations of other systems -1) low thornal the Gency (2-3%) because \$1600 Temporature différence g water available. Delumo q wast.

He Capital cast & more.

Dient Should be copable & withstanding Levous

owan stoums and seasons.

Dient sire about Loom w is Denisted

because It regulted large size components

(Riquirus som diamete pipe & 1 km long).