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Program BSC in CSE

Course code: CSE 441

Course title: Optical Fiber Communication.

Dept of CSE/CSIT

Victoria University

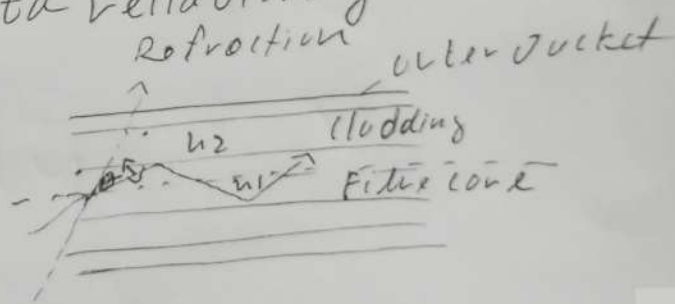
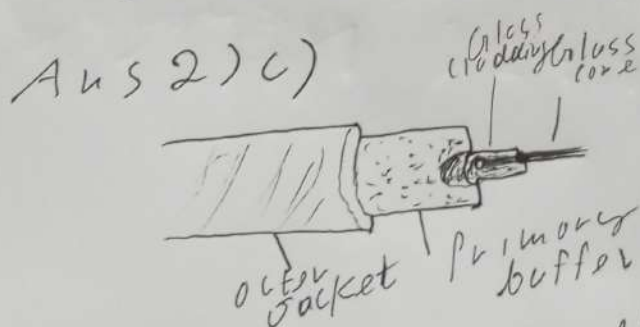
Bangladesh.

Ans 1) a) It involves the transmission of information such as digital data or voice through a network of thin glass or plastic ~~fibres~~ fibers that use light to carry the signal.

Ans 1) b) Application of optical fiber communication system Internet system, cable Television, Mechanical inspection, computer networking, Automobile, Telephone.

Ans 2) a) Photoelasticity is a technique used in stress analysis testing based on the ability of a transparent non-crystalline material that is isotropic, when free of stress to become optically anisotropic displaying stress characteristics when stressed.

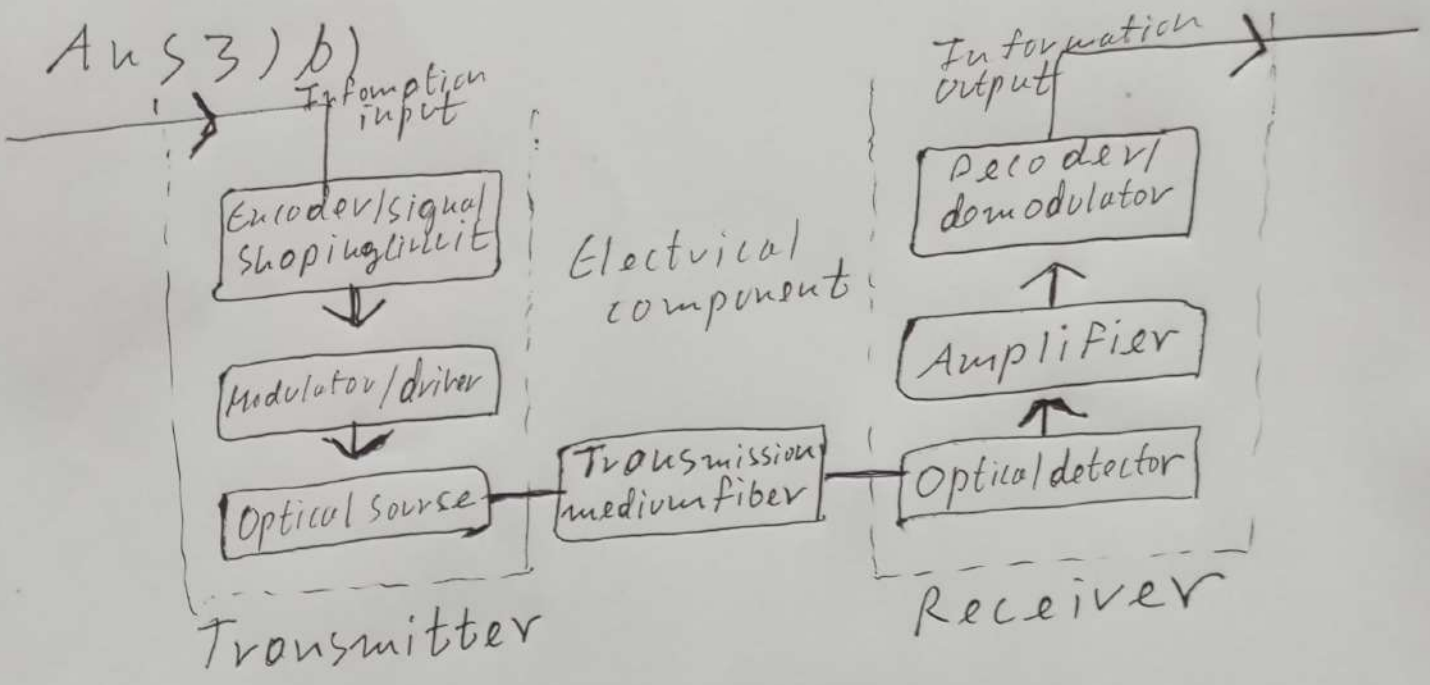
Ans 2) b) optical fiber advantages are high-speed data transmission, higher bandwidth, data security, and data reliability.



Optical fiber cable carry signal at very high speed by help of light which is totally internally reflected inside the cable inside core helps the light to pass and ~~the~~ diagram shows optic fiber cable which has four parts outer jacket primary buffer glass cladding and glass core.

Ans 2) c) In total internal reflection the light passes by totaly internaly reflection and in die-gram we are seeing the light bended by certain angle and which passes by totaly internaly reflection.

Ans 3) a) Advantages of digital transmissions are permits higher transmission rate, low cost, more efficient, more secure, simpler to integrate voice, video and data.



FIBER OPTIC COMMUNICATION SYSTEM. DIAGRAM,