

Marathwada Mitramandal's
COLLEGE OF ENGINEERING

S.No.18, Plot No.5/3, Karvenagar, Pune-52

Accredited with "A++" Grade by NAAC | Recipient of "Best College Award 2019" by SPPU

Accredited by NBA (Mechanical Engg. & Electrical Engg.)

Recognized under section 2(f) and 12B of UGC Act 1956

Department of Electronics & Telecommunication Engineering

Activity: Puzzle

Date: 13/02/2024

Class: B.E.

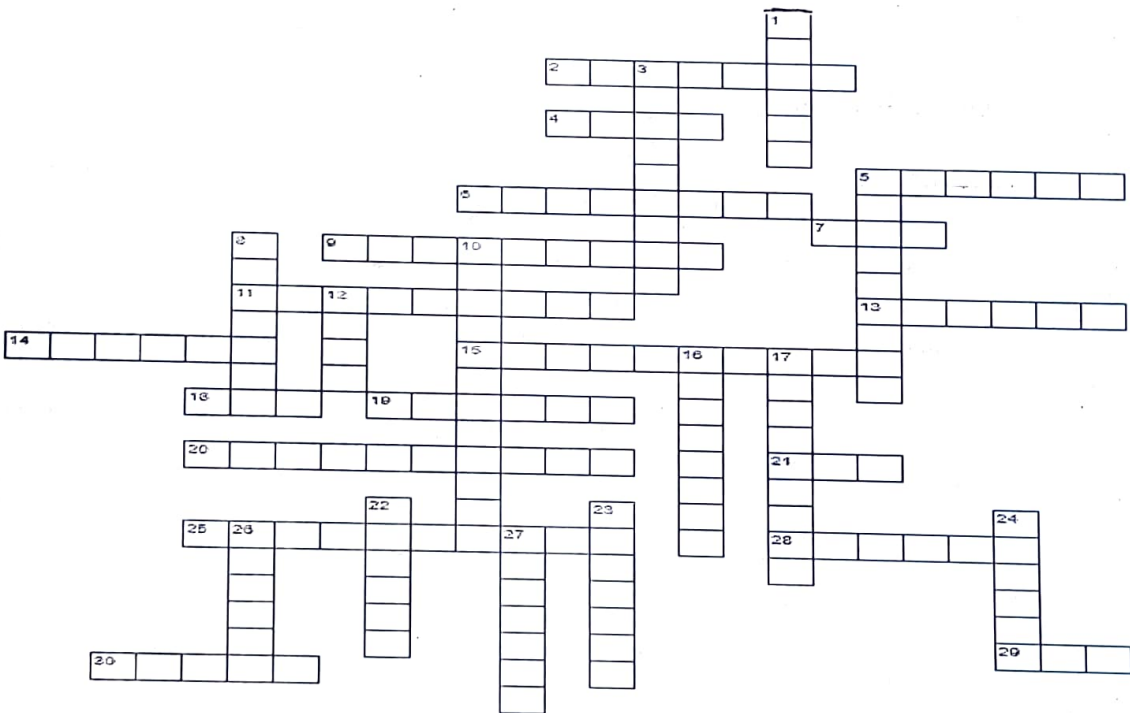
Academic Year: 2023-24

Course Name : Fiber Optic Communication

Topic: FOC Basics

Details:

Puzzle:



Across

- 2 A type of cable consist of a single tightly buffered fiber
- 4 A device that measures the scattered reflected light returning from the pulse of transmitted light
- 5 What mode is used for long haul telecommunications
- 6 The portion that contains fiber optic transmission wavelengths
- 7 Unit that is use to measure power readings in optical fibers
- 9 When an atom has only one electron, it is a perfect?
- 11 One kind of cable consisting of electrical conductors and fiber
- 13 Composed of 12 fibers held together by a plastic tape
- 14 The fundamental unit of light and electromagnetic energy
- 15 When the light bounces off a medium, it is called
- 18 The process that includes quantizing, sampling and encoding
- 19 Cable containing Single mode and Multi mode fibers
- 20 It is the bending of light through the intersection of two medium
- 21 There are two most common types of light source used in fiber optic communication, one is laser diode and the one is?
- 25 The distance light travels to complete one cycle is called
- 28 Standard color for 62.5/125nm fiber cordage
- 29 It is the fiber optic communication common method of mudulation
- 30 Short for Synchronous Optical Network

Down

- 1 How many different fibers does the standard fiber color codes accounts for
- 3 A device that converts a voice or data into a transmittable form
- 5 Cables that can handle high pressure and moisture associated with great depths
- 8 Fiber connector still being used on older systems
- 10 A non-breakout, tight buffered and used indoor is called
- 12 Reference guide that should always be available whenever chemicals and solvents are being used for splicing
- 16 The three components of optical fibers are core, jacket and
- 17 An atom that has eight valence electrons is a good
- 22 Cables used inside buildings and fire resistant are called
- 23 An analog sample rate must be atleast two times the highest frequency is called _____ sampling criteria
- 24 Standard color for 8.3/125nm fiber cordage
- 26 A coupler that provides no insertion loss
- 27 Cable ratings OFNG and OFCG, the G stands for

Name & Sign of Course Coordinator


Academic Coordinator

Dr. A. S. Bhattawande - AMS

Ms. S. N. Deshmukh SND

Marathwada Mitramandal's
College of Engineering, Karvenager, Pune
Session Plan - 15/42
Department of E&TC Engineering

A.Y. 2023-24

Class: BE
(404190)

Topic: Unit2- Activity

A) Attendance: (2 Min.)

B) Review of the previous session: (3 Min)

- Revision of formulae and methods for numericals

C) Learning Outcomes of the session: (3 Min.)

- Evaluation of students' knowledge on covered topics

D) Contents: (43 Min)

Contents	Learning / Methodology	Faculty Approach	Typical Student Activity	Skill/ Competency Developed
Activity - Puzzle	PPT	Explain	Understand	Critical Thinking - Observation
Activity - group discussion	PPT	Explains, Guides	Remember	Critical Thinking - Observation

E) Student's evaluation : (5 Min)

Puzzle

F) Preparation for next session: (2 Min)

Basics of optical detectors

G) Wrap up: (3 Min)

- Revision of formulae and methods applied to solve puzzle
- Conclusion of GD

Course Coordinators
Ms. S. N. Deshmukh
Dr. A. S. Bhatlawande

SND
AMS