

## Exercise 1: Physical Communication Systems Analysis and Design

### 1. Information Rate and Bandwidth of a Video Stream

Exercise 1.1  
Video Stream Analysis

#### Step 1: Stream Characteristics

##### a. What are the stream's key parameters?

Consider a video stream with the following characteristics: Resolution: 1920x1080 pixels, Frame Rate: 30 FPS, Color Depth: 24 bits/pixel.

- Calculate the stream's data rate in bits per second (bps).
- Calculate the stream's bandwidth in Hz.
- Calculate the stream's storage requirements in GB per hour.

##### b. What are the stream's key parameters and the key equations?

Resolution: 1920x1080 pixels

Frame Rate: 30 FPS

Color Depth: 24 bits/pixel

Resolution: 1920x1080 pixels

Frame Rate: 30 FPS

##### c. What are the stream's key parameters and the key equations?

Resolution: 1920x1080 pixels

$$R = \frac{1920 \times 1080 \times 24 \times 30}{8}$$

Frame Rate: 30 FPS

Color Depth: 24 bits/pixel

##### d. What are the stream's key parameters and the key equations?

Resolution: 1920x1080 pixels

$$R = \frac{1920 \times 1080 \times 24 \times 30}{8}$$

Frame Rate: 30 FPS

$$R = \frac{1920 \times 1080 \times 24 \times 30}{8}$$

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# Optical Communication Two Marks With Answers

**Raffaela Di Napoli**



## **Optical Communication Two Marks With Answers:**

Basics of Electrical Electronics and Communication Engineering Dr. K. A. Navas, T. A. Suhail, 2010-08-01 The book is written per the syllabus of first year engineering degree course for various universities It covers basic topics of electrical electronics and communication engineering It also includes worked out examples University examination questions and answers exercise etc in every chapter This book is suitable for course in basic electrical and electronics engineering under various Universities Authors have tried to elucidate the topics in such a way that even a mediocre student can assimilate them Many solved problems sample question papers and exercise given in every section will provide a thorough understanding of the topics Other features include attractive writing style well structured equations and numerical examples pictures of high clarity etc This book is one among prescribed textbooks for the syllabus of BIT Mesra Ranchi Oswaal CBSE Question Bank Class 9 Computer Application, Chapterwise and Topicwise Solved Papers For 2025 Exams Oswaal Editorial Board, 2024-02-03 Oswaal CBSE Question Bank Class 9 Computer Application Chapterwise and Topicwise Solved Papers For 2025 Exams Oswaal CBSE Question Bank Class 12 Computer Science, Chapterwise and Topicwise Solved Papers For Board Exams 2025 Oswaal Editorial Board, 2024-01-23 Description of the product 100% Updated Syllabus Fully Solved Board Papers we have got you covered with the latest and 100% updated curriculum Crisp Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics Extensive Practice with 3000 Questions Board Marking Scheme Answers to give you 3000 chances to become a champ Concept Clarity with 1000 Concepts 50 Concept Videos for you to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Art Integration Competency Based Questions for you to be on the cutting edge of the coolest educational trends *European Optical Communications and Networks*, 1994

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