

R.S.P College Jharia

Department of Physics

Semester IV Physics (Hon's)

Internal Exam: CC 8 Mathematical Physics

F.M 20

All question carries equal marks.

Q1. What is complex Number and its Graphical representation.

Or

What is Cauchy Integral formula.

Q2. What is Fourier Integral theorem?

R.S.P College Jharia

Department of Physics

Semester IV Physics (Hon's) Internal Exam: CC 9 Elements of Modern Physics

F.M 20

All question carries equal marks

Q1 What is Davison –Germer experiments.

Or

What is Planks Black Body radiation law?

Q2. What is Laser? Explain its working

Or

What is Pumping ? Explain three level of Pumping.

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Department of Physics

Semester IV Physics (Hon's) Internal Exam: CC 10 Digital System and App.

F.M 20

All question carries equal marks

Q1. What is C.R.O? Explain it with block diagram.

Or

What is Multiplexer explain with diagram

Q2. What is Astable and mono stable Multi vibrator .

Or

Explain IC 555 Timer with Diagram

R.S.P COLLEGE Jharia

Department of Physics

Semester IV Physics (GE)

Internal Exam: GE 4 Waves and Optics

F.M 20

All question carries equal marks

Q1 . What is plain Progressive wave deduce its expression.

Or

Deduce relationship between group velocity and Phase velocity

Q2. What is Michelson Interferometer? Explain its working

Or

What is Resolving Power Grating? Explain for Microscope .