

**FURTHER DETAILS REGARDING MAIN TOPICS OF
PROGRAMME NO. 05 / 2010**

TECHNICIAN GRADE .II (FITTER - MECHANIC)

PRINTING (GOVT. PRESSES)

CATEGORY NO. 223/2007

Mathematics:-

Mensuration – Simple Problems, relations and equations of areas of geometrical shapes like square, rectangle, trapezium, triangle, circle etc.
– Simple equations of volumes of cylinders, prisms, square, rectangular etc. Units in SI system.

Material Science:-

Classification of materials, selection of materials for Engineering application – Properties of commonly using materials – properties of cutting tool materials etc.

Mechanical Engineering:-

Simple problems, definitions and units of pressure, velocity, acceleration, temperature, force, work, power, energy, friction etc.

Electrical Engineering:-

Definitions of basic terms in Electrical Circuit like current, voltage, resistance, their units, relations – ohm's law – series and parallel circuits – simple problems and their relations.

Fitting:-

Classification of tools used in fitting shop – their materials – properties, Different process performed in fitting shop – filing – surface finishing, cutting etc. Classification of cutting tools – measuring instruments etc.

I.C. Engines:-

Working of petrol/diesel engines, 2 stroke/4 stroke engines – parts of an engine – functions of each part.

Care and Maintenance:-

Care – maintenance (periodic and break down maintenance) etc. in workshops. Lubrication – need and types – first aid etc.

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.