

JUNIOR INSTRUCTOR (ARITHMETIC-CUM-DRAWING)



TECH. PSC

Center for all Technical PSC coaching



WE HELP YOU TO SHAPE YOUR FUTURE

EXAM DETAILS



METHOD OF RECRUITMENT

Direct

AGE LIMIT

19-44

NAME OF POST

Junior Instructor
(Arithmetic-Cum-Drawing)

DEPARTMENT

Industrial Training

NUMBER OF VACANCY

Reported - 03
Expecting - Upto 100.

QUALIFICATION:

1. S.S.L.C or its equivalent qualification.
2. (a) National Trade Certificate in the appropriate trade with three years experience in the trade after obtaining the certificate.
OR
(b) National Apprenticeship Certificate in the appropriate trade with one year experience after obtaining the certificate
OR
(c) Diploma in the appropriate branch of Engineering from a Government or Government Recognized polytechnic or its equivalent qualification.

NOTE : ANY BRANCH DIPLOMA OR B.Tech HOLDERS CAN APPLY

LEARN FROM ANYWHERE

- High Quality Recorded Classes
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- Intensive class room coaching

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EXPECTED SYLLABUS

JUNIOR INSTRUCTOR (ARITHMETIC-CUM-DRAWING)

Fundamentals

Classification of Units, Unit conversions, Fractions, Average, Square, Square root, Application of Pythagoras theorem, Ratio & Proportion, Percentage, Profit and loss, Simple & compound interest, Algebra- Addition Subtraction, Multiplications & divisions, Theory of indices, Algebraic formulas

Power transmission

Simple belt drive, multiple belt drive, Simple gear drive, Gear trains

Material Science

Type of metals, Physical and mechanical properties of metals, Ferrous and non ferrous metals, Cast iron, Steel, Alloy steel and carbon steels, Different heat treatment process- Hardening, tempering, annealing, normalizing & case hardening

Engineering Mechanics

Speed, Velocity, Acceleration & Retardation, Potential energy, Kinetic Energy, work, Power, Energy, HP, IHP, BHP & Efficiency, Simple machines, Effort and load, Mechanical advantage, Velocity ratio, Efficiency of machine, Relation between efficiency, Velocity ratio and mechanical advantage, Linear motion, Rotary motion, Friction- Advantage & disadvantages, Laws of friction, Coefficient of friction, Angle of friction, Angle of Repose, Center of gravity of geometrical figures, Mass, Density, Weight and specific gravity

Mensuration

Areas of quadrilateral, Circles & various geometrical sections, Relation between sides and diameters, Triangles, Properties of angles and triangles, Calculation of perimeters, Surface area of rigid bodies, Volume of rigid bodies, Area of Segment & sector of circle, Area of irregular surfaces and its applications

Trigonometry

Measurement of angle, Trigonometric ratios, Trigonometric table, Trigonometric application in calculating height and distance



Basic Electricity

Introduction and uses of electricity, Molecule, Atom, How electricity is produced, AC, DC & their comparison, Voltage, current, Resistance & their units, Conductor, insulator, Series & Parallel connection, Ohms law, Electrical power energy and their units, Self and mutual inductance, Electro magnetic induction and emf generation

Heat & Temperature

Concept of heat & temperature, Effects of heat, Difference between heat & temperature, Scales of temperature- Celsius, Fahrenheit, Kelvin & Conversion between scales of temperature, Temperature measuring instruments, Types of thermometer, pyrometer, Heat transfer modes- Conduction, Convection & Radiation, Coefficient of linear expansion, Heat loss and heat gain, Thermal conductivity & insulators, Boiling point & melting point of different metals & non-metals, Concept of pressure & it's different units

Elasticity

Elastic, Plastic materials, Stress, Strain & different moduli ,Poisson's ratio, Hookes Law, Ultimate & working stress, Factor of safety, Relationship between three moduli

Engineering Drawing

Drawing instruments, Lines, Lettering & dimension, Different types of scales, Conic sections, Miscellaneous curves- involute, cycloid, helix & spiral, Theory projections, Projection of points ,Lines, Planes & solids, Section and intersection of solids, Development of surfaces, Orthographic projection, Oblique projection, Isometric projection & Perspective projection, Auto CAD



**GRAB YOUR SUCCESS
TICKET NOW!**



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







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