

P1961

F.E. (Semester - I)
ENGINEERING GRAPHICS - I
(2012 Pattern)

Time : 2 Hours]

[Max. Marks : 50

Instructions:

- 1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8*
- 2) Use only half imperial size drawing sheet as answer book.*
- 3) Retain all construction lines.*
- 4) Assume suitable data if necessary.*

Q1) The point M of line MN is in HP while its other end N is 50 mm above HP and 80 mm in front of VP. The line is inclined to VP at an angle of 40° . Draw the projections of a line if its elevation makes 29° with HP. Find true length of line and the inclination made by the line with HP. Also, locate the traces of line. **[12]**

Q2) An isosceles triangle, base 50 mm and altitude 80 mm, is resting in VP on its base. Its surface is inclined to VP so that the corner opposite to resting side is 50 mm in front of VP. Draw the projections if its resting side is inclined to HP at an angle of 45° . Find inclinations made by the plane with HP and VP. **[12]**

Q3) A square prism of base side 40 mm and axis height 80 mm is resting in HP on one of its base side. Then it is tilted so that the face contained by resting side is inclined to HP at 30° . Draw the projections, if its axis is inclined to VP at 40° . **[13]**

Q4) a) Draw a hyperbola by focus directrix method if focus is 50 mm from directrix and eccentricity is $3/2$. **[7]**

b) Draw the development of lateral surface of hexagonal prism of base side 30 mm and axis height 60 mm. **[6]**

P.T.O.

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Fire Prevention in Modern Construction Matthew J. Bourque, 2016-03-26 Fires continue to be an increasing threat to buildings and construction sites Under construction buildings are very vulnerable to fire hazards Modifications made to buildings over time whether for maintenance repair or improvements can significantly hinder a building's life safety degree if fire safety is not considered **Fire Prevention in Modern Construction A Practical Guide** introduces and explains the fundamentals of construction fire safety It explores applicable codes and standards while providing a fundamental understanding of common fire protection and life safety systems found in buildings It offers guidance on inspection techniques and how to foster cooperative communication between the Fire Protection Program Manager (FPPM) design team general contractor subcontractors authority having jurisdiction (AHJ) and owners The book features several examples and real life applications highlighting best practices that can be applied to a variety of job sites Written by a fire protection engineer with extensive experience developing implementing and enforcing construction fire safety plans this book is an essential resource for those serving as a FPPM but also equips professionals in the construction real estate engineering and property management sectors with the necessary fire prevention fundamentals to support real estate projects and keep them safe

Memoirs of the Faculty of Engineering, Osaka City University Ōsaka Shiritsu Daigaku. Kōgakubu, 2014 **From soil to seed: micronutrient movement into and within the plant** Raul Antonio Sperotto, Felipe Klein Ricachenevsky, Lorraine Elizabeth Williams, Marta Wilton Vasconcelos, Paloma Koprovski Menguer, 2014-11-19 In all living organisms essential micronutrients are cofactors of many ubiquitous proteins that participate in crucial metabolic pathways but can also be toxic when present in excessive concentrations In order to achieve correct homeostasis plants need to control uptake of metals from the environment their distribution to organs and tissues and their subcellular compartmentalization They also have to avoid deleterious accumulation of metals and metalloids such as Cd As and Al These multiple steps are controlled by their transport across various membrane structures and their storage in different organelles Thus integration of these transport systems required for micronutrient trafficking within the plant is necessary for physiological processes to work efficiently To cope with the variable availability of micronutrients plants have evolved an intricate collection of physiological and developmental processes which are under tight control of short and long range signaling pathways Understanding how plants perceive and deal with different micronutrient concentrations from regulation to active transport is important to completing the puzzle of plant metal homeostasis This is an essential area of research with several implications for plant biology agriculture and human nutrition There is a rising interest in developing plants that efficiently mobilize specific metals and prosper in soils with limited micronutrient availability as well as those that can selectively accumulate beneficial micronutrients in the edible parts while avoiding contaminants such as Cd and As However there is still an important gap in our understanding of how nutrients reach the seeds and the relative contribution of each step in the

long pathway from the rhizosphere to the seed Possible rate limiting steps for micronutrient accumulation in grains should be the primary targets of biotechnological interventions aiming at biofortification Over the last 10 years many micronutrient uptake and transport related processes have been identified at the molecular and physiological level The systematic search for mutants and transcriptional responses has allowed analysis of micronutrient signaling pathways at the cellular level whereas physiological approaches have been particularly useful in describing micronutrient signaling processes at the organ and whole plant level Large scale elemental profiling using high throughput analytical methodologies and their integration with both bioinformatics and genetic tools along with metal speciation have been used to decipher the functions of genes that control micronutrients homeostasis In this research topic we will follow the pathway of metal movement from the soil to the seed and describe the suggested roles of identified gene products in an effort to understand how plants acquire micronutrients from the soil how they partition among different tissues and subcellular organelles and how they regulate their deficiency and overload responses We also highlight the current work on heavy metals and metalloids uptake and accumulation the studies on metal selectivity in transporters and the cross talk between micro and macronutrients Thus we believe a continued dialogue and sharing of ideas amongst plant scientists is critical to a better understanding of metal movement into and within the plant

Material Engineering Practice IX Mária Mihaliková, Pavol Zubko, 2014-12-11 Selected peer reviewed papers from the 9th International Conference on Material in Engineering Practice IX June 12 13 2014 Herany Slovak Republic Journal of the Physical Society of Japan, 2014 Minutes of Proceedings of the Institution of Civil Engineers Institution of Civil Engineers (Great Britain), 1911 Vols 39 214 1874 75 1921 22 have a section 2 containing Other selected papers issued separately 1923 35 as the institution's Selected engineering papers **Materials, Transportation and Environmental Engineering** Jimmy Chih Ming Kao, Wen Pei Sung, Ran Chen, 2013-09-04 Selected peer reviewed papers from the 2013 International Conference on Materials Transportation and Environmental Engineering CMTEE 2013 August 21 23 2013 Taichung Taiwan *Modern Technologies in Industrial Engineering II* Constantin Carausu, Andrzej Wróbel, Emil Oanta, Alexei Toca, Alexander Mikhaylov, Dumitru Nedelcu, 2014-10-01 Selected peer reviewed papers from the Modern Technologies in Industrial Engineering July 13 16 Gliwice Poland **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards, 1980 **Journal of Research of the National Bureau of Standards**, 1980 Engineering, 1879 **The Ladder** Andrew Bernard, 2021-02-19 Foreword by Colonel Dame Kelly Holmes Regardless of one's plans for the future many people's careers are founded on a series of chance encounters experiences and serendipity School college university jobs family sports hobbies friends relationships these are all fertile grounds for career related conversations and explorations What if we teachers guides mentors parents and peers started to notice these seemingly unconnected happenings and indeed started to engineer and encourage them to happen Using the mantra every adult is a careers teacher The Ladder will inspire teachers to explicitly link their subject area to students

futures both in school and outside its walls and support them in doing so Bernie draws upon his 30 year career in education and business development to bring clarity focus and ideas to educators as to how they can best start students on their own ladders to success Ultimately in writing this book Bernie s aim is to bring young people s futures to life with some personal skills reflection and forward planning designed to help them as they embark on their fulfilling futures regardless of their upbringing academic achievements or ethnic background

NBS Publications Newsletter ,1980 A newsletter for librarians documentalists and science information specialists

British and Colonial Printer and Stationer ,1912

The Mining Journal, Railway and Commercial Gazette ,1901

The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces ,1884

The Electrician ,1925

Catalogue of Books Exclusive of Prose Fiction in the Central Lending Library Leeds (England). Public Libraries, Art Gallery and Museum,1907

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