

Q.2 Write short answers to any Twelve (12) of the following questions.

12 × 2 = 24

1. Draw a symbol for steel.



سٹیل کا سبیل بتائیں۔
 جو سبیل

2. Describe standard arrow head and its parts.

سیر کے معیاری نشان اور اس کے حصوں کو بیان کریں۔
 سیر کی لمبائی اور چوڑائی اس کے متن 3:1 ہوتی ہے اور ہر نقش 1:3 ہوتی ہے۔ اور اس کو H نشان سے بتایا جاتا ہے۔

3. Describe any two conventional breaks with the help of sketches.

خاکہ کی مدد سے کوئی دو روایتی ریکس بیان کریں۔
 جو اس سے: جب کسی Object کو ڈرائنگ شیٹ پر دیکھنا مقصود ہو مگر چم کم ہو تو اس کو چھوٹا کر کے بتایا جاتا ہے۔ اس Object کی لائنوں کو توڑ کر دکھانے کے عمل کو کوٹنچل ریکس کہتے ہیں۔



4. State the difference between frustum and truncation.

فرسٹم اور فر ٹرنکیشن کے درمیان فرق بیان کریں۔
 جو اس سے: فرسٹم: جب کسی سولڈ کو اس کے قاعدے کے متوازی کاٹا جائے تو باقی ماندہ حصہ فرسٹم کہلاتی ہے۔
 فر ٹرنکیشن: جب کسی سولڈ کو اس کے قاعدے کے ساتھ کسی بھی زاویہ پر کاٹا جائے تو باقی ماندہ حصہ فر ٹرنکیشن کہلاتا ہے۔

5. Define a line of intersection.

لائن آف انٹر سیکشن کی تعریف کریں۔
 جو اس سے: انٹرنیٹنگ Objects، ہائڈز، مختلف سولڈز یا سطحوں کے ملنے سے بنتے ہیں۔ جس جگہ پر یہ آپس میں ملتے ہیں تو یہیں پر ایک لائن دکھائی دیتی ہے جسے جنگلی بناؤٹ کا داروہ دہارنے والی سطحوں کی مابین پر ہوتا ہے۔ اس کو لائن آف انٹر سیکشن کہتے ہیں۔

6. Define sectioning.

سیکشننگ کی تعریف کریں۔
 جو اس سے: Object کو تصوراتی طور پر کاٹنے کے بعد اس کی ڈرائنگ بنائی جاتی ہے اس کیلئے بھیجی ہوئی لائنوں کی بجائے Objects لائننگ کر اس جگہ کی سیکشن لائنیں لگادی جاتی ہے۔ اس عمل کو سیکشننگ کہتے ہیں۔

7. State the purpose of sectioning.

سیکشننگ کے مقاصد بیان کریں۔
 جو اس سے: جب کوئی Object دیکھا جاتا ہے اور اس کی آسانی سے سمجھ میں نہ آئے تو اس کی ڈرائنگ کچھ ٹھنکن بنائی۔ اس مشکل کو دور کرنے کیلئے اس Object کی سیکشننگ کی جاتی ہے تاکہ ڈرائنگ کچھ تیار ہو سکے۔

8. Define fasteners and name its types.

فاسٹنرز کی تعریف کریں اور ان کی اقسام کے نام لکھیں۔
 جو اس سے: یہ ایک ایسا پرزہ ہوتا ہے جس کی مدد سے دو یا دو سے زیادہ حصوں کو آپس میں جڑوا جاتا ہے۔ اس کی دو اقسام ہوتی ہیں۔
 1. مستقل فاسٹرز
 2. عارضی فاسٹرز

9. Differentiate right and left hand threads.

دائیں اور بائیں ہاتھ کے تھریڈز میں فرق بیان کریں۔
 جو اس سے: جب ہٹ ٹھوڑی وار سمت میں گھماتے سے ٹائٹ ہو تا شروع ہو جائے تو اس کو دائیں ہاتھ کی چوڑی کہتے ہیں۔
 جب ہٹ ٹھوڑی وار کی مخالف سمت میں گھماتے سے ٹائٹ ہو تا شروع ہو جائے تو اس کو بائیں ہاتھ کی چوڑی کہتے ہیں۔

10. Describe any two locking devices.

کوئی دو لاکنگ ڈیوائس بیان کریں۔
 جو اس سے: سکرنگ واشر: فرائنگ کے اس طریقہ میں سٹیل یا ڈیڑی کو ایک واشر کو ٹٹ کے نیچے رکھ کر ٹائٹ کر دیا جاتا ہے جس سے کافی دباؤ اور مزاحمت پیدا ہو جاتی ہے اور ہٹ ٹھوڑی ڈکو مشینوں سے نکال دیتا ہے۔
 سکر وٹس: اس قسم کے ٹٹ کے نیچے بنی ہوئی کارل اسٹیل میں بنی ہوئی چھری میں ہٹ ٹھوڑی جاتی ہے۔ اور اس کو لاک کرنے کیلئے ایک ہیٹ سکر

11. Define a rivet and name its parts.



استعمال کیا جاتا ہے۔ جو اس کو ڈھیلنا ہونے سے روکتا ہے۔
 روٹ کی تعریف کریں۔ اور اس کے حصوں کے نام لکھیں۔
 جو اس سے: روٹ ایک سنڈر ٹیکل راز ہوتی ہے جس کے ایک سرے پر ہیڈ اور دوسرے سرے پر دم ہوتی ہے۔
 درمیانی حصہ شینک کہلاتا ہے۔

12. Define caulking process in riveted joints.

روٹل جو اسٹیل میں کالنگ کے عمل کو بیان کریں۔
 جو اس سے: اس طریقہ میں پائٹ اور ریجٹ کے کناروں کو پرس کر دیا جاتا ہے اس کام کیلئے جو ٹول استعمال ہوتا ہے اس کی سولائی تقریباً 10 ملی میٹر اور چوڑائی 38 ملی میٹر ہوتی ہے۔ اس عمل سے جوڑ ٹیک پر دھک ہو جاتا ہے۔

13. Define key way and key seat.

کی وے اور کی سیٹ کی تعریف کریں۔
 جو اس سے: ایسی چھری جو ہب میں کافی جاتی ہے تاکہ اس میں Key لگائی جائے مکی وے کہلاتی ہے۔ اور شافٹ بنائی جانے والی چھری جس میں Key کو نصب کیا جاتا ہے مکی سیٹ کہلاتی ہے۔

14. Define cotter and name its types.

کاوٹر کی تعریف کریں اور اس کی اقسام کے نام لکھیں۔
 جو اس سے: اس کی بناؤٹ دو تھک بھیجی ہوتی ہے اور کر اس سیکشن مستطیل نما ہوتا ہے۔ دو راز کو جوڑنے کیلئے استعمال کی جاتی ہے۔
 اقسام: ٹائین کاوٹر، جب کاوٹر، پین کاوٹر

15. Name the parts of a ball bearing.

Separator / Cage – Inner race – Ball – Outer Race

16. Define shaft coupling.

شافٹ کپلنگ کی تعریف کریں۔
 جو اس سے: شافٹس زیادہ سے زیادہ یا 10 ملی میٹر لمبائی میں تیار کی جاتی ہیں اگر زیادہ لمبائی درکار ہو تو یا دو سے زیادہ شافٹوں کو جڑوا جاتا ہے اس مقصد کیلئے استعمال ہونے والی ڈیوائس کو شافٹ کپلنگ کہتے ہیں۔

17. Describe a working drawing.

ورکنگ ڈرائنگ کو بیان کریں۔
 جو اس سے: ایسی ڈرائنگ جس میں ہر پارٹ کو بڑی وضاحت سے بتایا جائے تاکہ اس کو تیار کرنا اور کرکیلئے آسان ہو اور تیار کیلئے تمام معلومات درج ہوں۔ اس کے علاوہ کسی بھی ڈرائنگ کی ضرورت نہ ہو ورننگ ڈرائنگ کہلاتی ہے۔

18. Define allowance with the help of sketch.

خاکہ کی مدد سے ان ولس کی تعریف کریں۔
 جو اس سے: دو اسٹیل ہونے والے پارٹس کے درمیان جو جیتا جاتی مچائش ہوتی ہے اس کو ان ولس کہتے ہیں۔



Note: Attempt any two (2) questions.

2 × 8 = 16

2. Explain the following section

مندرجہ ذیل سیکشنز کی وضاحت کریں۔

(i) Revolved section

(ii) Removed section

3. Explain technical terms used in riveted joints with the help of a neat sketch

خاکہ کی مدد سے روٹل جو اسٹیل میں استعمال ہونے والی فنی اصطلاحات کی وضاحت کریں۔

4. State the types of high friction bearing.

باقی فرکشن بیرنگ کی اقسام بیان کریں۔

Mechanical Engineering 2nd Year Paper Presentation 2014

Zhe Xu



Mechanical Engineering 2nd Year Paper Presentation 2014:

Problem-Based Learning for Engineering Education Dillip K. Das, 2025-12-12 This book embarks on an in depth exploration of Problem Based Learning PBL in the context of engineering education Its overarching goal is to provide a comprehensive understanding of the genesis potential challenges contemporary relevance and methodological approaches of PBL The impetus behind this undertaking arises from the acknowledged challenges within engineering education necessitating a fundamental paradigm shift The study s justification lies in the imperative adoption of innovative teaching methodologies for student performance improvement and fostering competency among engineering graduates The narrative unfolds across four distinct sections Background and Theoretical Perspectives Methodological Aspects of PBL Implications of PBL in Engineering Education and Case Studies and Plausible Examples and Reflections and Future Direction Part I establishes a robust foundation by defining PBL tracing its historical roots and weighing its potential against challenges A critical examination of PBL s relevance underscores the urgent need for a paradigm shift in engineering education The part weaves a golden thread that permeates subsequent explorations A theoretical perspective of PBL follows exploring its underpinnings and theoretical frameworks This is complemented by a comparative analysis offering insights into PBL s efficacy compared to traditional learning methods The second part examines the alignment of PBL with Outcomes Based Education lays the groundwork for a coherent and practical integration of these educational approaches within the Engineering curriculum and also offers methodological approaches to deliver and practice PBL Part III explores PBL s application for reinforcing engineering education emphasising its tangible impact It probes into PBL as a means to instil entrepreneurial attributes in students and further expands to encompass the decolonisation and internationalisation of engineering education through PBL The final part provides case studies offer plausible examples reflects on the lessons learned and draws insightful conclusions synthesising the findings into a cohesive whole Overall this book seeks to make a substantial contribution to the ongoing discourse on innovative teaching methodologies particularly within the context of engineering education Through a meticulous examination of theoretical foundations comparative analyses and the provision of practical methodologies it aims to serve as a valuable resource for educators researchers and policymakers who seek to enhance the effectiveness and relevance of engineering education in our ever evolving world

An evolving paradigm of agricultural mechanization development: How much can Africa learn from Asia? Diao, Xinshen, ed., Takeshima, Hiroyuki. ed., Zhang, Xiaobo, ed., 2020-12-07 Agricultural mechanization in Africa south of the Sahara especially for small farms and businesses requires a new paradigm to meet the needs of the continent s evolving farming systems Can Asia with its recent success in adopting mechanization offer a model for Africa An Evolving Paradigm of Agricultural Mechanization Development analyzes the experiences of eight Asian and five African countries The authors explore crucial government roles in boosting and supporting mechanization from import policies to promotion policies to public good policies Potential

approaches presented to facilitating mechanization in Africa include prioritizing market led hiring services eliminating distortions and developing appropriate technologies for the African context The role of agricultural mechanization within overall agricultural and rural transformation strategies in Africa is also discussed The book s recommendations and insights should be useful to national policymakers and the development community who can adapt this knowledge to local contexts and use it as a foundation for further research Advances in Material Sciences and Engineering Mokhtar Awang,Seyed

Sattar Emamian, Farazila Yusof, 2019-09-19 This book presents selected papers from the 4th International Conference on Mechanical Manufacturing and Plant Engineering ICMMPPE 2018 which was held in Melaka Malaysia from the 14th to the 15th of November 2018 The proceedings discuss genuine problems concerning joining technologies that are at the heart of various manufacturing sectors In addition they present the outcomes of experimental and numerical works addressing current problems in soldering arc welding and solid state joining technologies *Emerging Research in Computing,*

Information, Communication and Applications N. R. Shetty, L. M. Patnaik, N. H. Prasad, 2022-12-12 This book presents the proceedings of the International Conference on Emerging Research in Computing Information Communication and Applications ERCICA 2022 The conference provides an interdisciplinary forum for researchers professional engineers and scientists educators and technologists to discuss debate and promote research and technology in the upcoming areas of computing information communication and their applications The book discusses these emerging research areas providing a valuable resource for researchers and practicing engineers alike **Fatigue and Fracture Mechanics XXV** Dariusz

Skibicki, 2014-11-26 Selected peer reviewed papers from the 25th Polish National Conference on Fatigue and Fracture Mechanics May 20-23 2014 Fojutowo Poland **Places of Invention** Arthur P. Molella, Anna Karvellas, 2015-06-30 The companion book to an upcoming museum exhibition of the same name Places of Invention seeks to answer timely questions about the nature of invention and innovation What is it about some places that sparks invention and innovation Is it simply being at the right place at the right time or is it more than that How does place whether physical social or cultural support constrain and shape innovation Why does invention flourish in one spot but struggle in another even very similar location In short Why there Why then Places of Invention frames current and historic conversation on the relationship between place and creativity citing extensive scholarship in the area and two decades of investigation and study from the National Museum of American History s Lemelson Center for the Study of Invention and Innovation The book is built around six place case studies Hartford CT late 1800s Hollywood CA 1930s Medical Alley MN 1950s Bronx NY 1970s Silicon Valley CA 1970s 1980s and Fort Collins CO 2010s Interspersed with these case studies are dispatches from three learning labs detailing Smithsonian Affiliate museums work using Places of Invention as a model for documenting local invention and innovation Written by exhibition curators each part of the book focuses on the central thesis that invention is everywhere and fueled by unique combinations of creative people ready resources and inspiring surroundings Like the locations it explores Places of

Invention shows how the history of invention can be a transformative lens for understanding local history and cultivating creativity on scales of place ranging from the personal to the national and beyond Morphing Wing Technologies Sergio Ricci, Ferri M.H. Aliabadi, Ruxandra Botez, Fabio Semperlotti, 2017-10-27 Morphing Wings Technologies Large Commercial Aircraft and Civil Helicopters offers a fresh look at current research on morphing aircraft including industry design real manufactured prototypes and certification This is an invaluable reference for students in the aeronautics and aerospace fields who need an introduction to the morphing discipline as well as senior professionals seeking exposure to morphing potentialities Practical applications of morphing devices are presented from the challenge of conceptual design incorporating both structural and aerodynamic studies to the most promising and potentially flyable solutions aimed at improving the performance of commercial aircraft and UAVs Morphing aircraft are multi role aircraft that change their external shape substantially to adapt to a changing mission environment during flight The book consists of eight sections as well as an appendix which contains both updates on main systems evolution skin structure actuator sensor and control systems and a survey on the most significant achievements of integrated systems for large commercial aircraft Provides current worldwide status of morphing technologies the industrial development expectations and what is already available in terms of flying systems Offers new perspectives on wing structure design and a new approach to general structural design Discusses hot topics such as multifunctional materials and auxetic materials Presents practical applications of morphing devices

Product Lifecycle Management in the Digital Twin Era Clement Fortin, Louis Rivest, Alain Bernard, Abdelaziz Bouras, 2020-02-28 This book constitutes the refereed post conference proceedings of the 16th IFIP WG 5.1 International Conference on Product Lifecycle Management PLM 2019 held in Moscow Russia in July 2019 The 38 revised full papers presented were carefully reviewed and selected from 63 submissions The papers are organized in the following topical sections 3D modelling and data structures PLM maturity and industry 4.0 ontologies and semantics PLM and conceptual design knowledge and change management IoT and PLM integrating manufacturing realities and integration of in service and operation *Light Metals 2025* Les Edwards, 2025-03-02 The Light Metals symposia at the TMS Annual Meeting Exhibition present the most recent developments discoveries and practices in primary aluminum science and technology The annual Light Metals volume has become the definitive reference in the field of aluminum production and related light metal technologies The 2025 collection includes contributions from the following symposia Alumina Bauxite Aluminum Alloys Development and Manufacturing Aluminum Reduction Technology Decarbonization and Sustainability in Aluminum Primary Processing Joint Session of Aluminum Reduction Electrode Technology and REWAS 2025 Electrode Technology for Aluminum Production Melt Processing Casting and Recycling Recycling and Sustainability in Cast Shop Technology Joint Session with REWAS 2025 Scandium Extraction and Use in Aluminum Alloys Innovating STEM Education: Increased Engagement and Best Practices Eugenia Koleza, Christos Panagiotakopoulos, Constantine Skordoulis, 2022-09-15 In recent years there has been

a focus on promoting the uptake of STEM subjects in schools This has been driven by the need to ensure that young people gain the knowledge and skills essential to help them participate in a society in which mathematics science and technology are increasingly important Nevertheless reform efforts including curriculum development have treated the STEM subjects mostly in isolation Recognizing that efforts for education within each individual STEM discipline would encourage a wide range of conversations about different important aspects of teaching and learning this conference considered the potential benefits and challenges for the integration of various STEM s characteristics into education In order to prepare students to address the problems of our society it is necessary to provide them with opportunities to understand these problems through rich engaging and powerful experiences that integrate the disciplines of STEM This volume contains selected papers presented at the Hellenic Conferences Innovating STEM education HiSTEM 2016 and 2018 organized by the Postgraduate Program Interdisciplinary Approach on Science Technology Engineering and Mathematics in Education STEM Education stemeducation.upatras.gr The first eleven papers were presented at the HiSTEM 2016 Conference and the last six papers at the HiSTEM 2018 Conference These papers were selected after a peer review process from the conferences submitted papers The conferences provided a platform for dissemination of best practices in teaching and learning STEM in Greece and also inspired and empowered STEM educators to improve teaching quality to increase engagement in STEM education and career pathways to connect students with real life industry relevancy and to drive creativity inquiry based learning problem solving and project based learning

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