

Roll No. _____

BT-203 (GS)**B.Tech., I & II Semester****Examination, December 2023****Grading System (GS)****Basic Mechanical Engineering****Time : Three Hours****Maximum Marks : 70**

- Note:** i) Attempt any five questions.
 किसी पाँच प्रश्नों को हल कीजिए।
- ii) All questions carry equal marks.
 सभी प्रश्नों के समान अंक हैं।
- iii) In case of any doubt or dispute the English version question should be treated as final.
 किसी भी प्रकार के संदेह अथवा विवाद की स्थिति में अंग्रेजी भाषा के प्रश्न को अंतिम माना जायेगा।

1. a) Define Hardness? Explain the Brinell Hardness test method in details? 8
 कठोरता को परिभाषित कीजिए। ब्रिनेल हार्डनेस परीक्षण विधि को विस्तार से समझाइए।
- b) Define the following mechanical properties: 6
 i) Strength
 ii) Ductility
 निम्नलिखित यांत्रिक गुणों को परिभाषित कीजिए:
 i) सामर्थ्य
 ii) लचीलपन

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- b) State the Kelvin-Planck and the Clausius statements of the second law of thermodynamics. Explain the equivalence of Kelvin-Planck and Clausius statements. 6
 ऊष्मगतिकी के द्वितीय नियम के केल्विन-प्लान्क तथा क्लॉसियस के कथनों को बताइये? केल्विन-प्लान्क तथा क्लॉसियस के कथनों की समतुल्यता की व्याख्या कीजिए।
7. a) Explain the structure and working of four-stroke petrol engine with a neat sketch. 8
 चार-स्ट्रोक पेट्रोल इंजन की संरचना से पौर स्ट्रोक पेट्रोल इंजन की संरचना एवं कार्यप्रणाली को समझाइए।
- b) Write short notes on surging, choking and stalling. 6
 सर्जिंग, चोकिंग और स्टॉलिंग पर संक्षिप्त टिप्पणी लिखिए।
8. Write Short note on any two: 14
 a) Hook's law and modulus of elasticity
 b) Micrometer
 c) Newton's law of viscosity
 d) Natural and artificial draught
 किसी दो पर संक्षिप्त टिप्पणी लिखिए।
 अ) हुक का नियम और लोच का मापांक
 ब) माइक्रोमीटर
 स) न्यूटन का स्नायुता का नियम
 द) प्राकृतिक और कृत्रिम ड्राफ्ट

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see and judge from a distance Once you come close and put your feet in my shoes you ll find that she is there because of the position I m holding Once I lose the position she d disappear in seconds She won t I know her very well And I know her more than she knows herself You don t trust me go and ask her let s get into the journey of Varun how he considered himself a loser despite getting all the possessions that he never truly wanted but for a girl

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Reliability, Quality Control, Safety, Maintenance and Management Vinit Kumar Gunjan,Vicente Garcia Diaz,Manuel Cardona,Vijender Kumar Solanki,K. V. N. Sunitha,2019-06-27 This book discusses reliability applications for power systems renewable energy and smart grids and highlights trends in reliable communication fault tolerant systems VLSI system design and embedded systems Further it includes chapters on software reliability and other computer engineering and software management related disciplines and also examines areas such as big data analytics and ubiquitous computing Outlining novel innovative concepts in applied areas of reliability in electrical electronics and computer engineering disciplines it is a valuable resource for researchers and practitioners of reliability theory in circuit based engineering domains

Engineering Graphics: For RGPV Shah,Rana,2011 Engineering Graphics For RGPV has been customized to meet the requirements of the students of Rajiv Gandhi Proudhyogiki Vishwavidyalaya in their first year This book covers all the fundamental topics of engineering drawing while focusing on the logic behind each concept and method The unique features of the book such as its cutting edge pedagogy chapters mapped exactly in sequence with the university syllabus the clear and step by step method of instruction and the addition of solved university question papers will definitely help students excel in their exams

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