

Question 1

- 1.1 The following data was obtained during a tensile test performed on a mild steel test piece.

Load (kN)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
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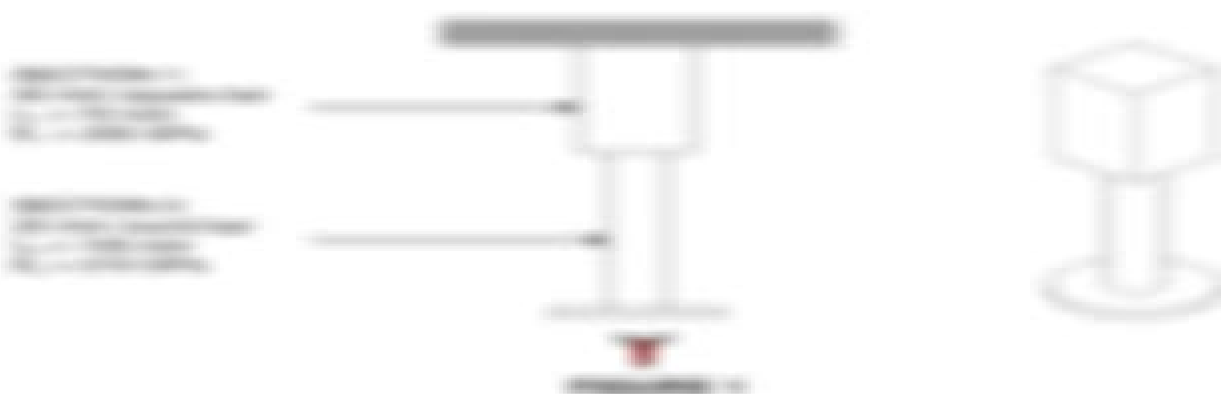
Extension of the test piece	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	1000
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Answer the following questions.

- 1.1.1 Draw the stress-strain diagram according to an appropriate scale. (10)
- 1.1.2 Calculate the Young's modulus of elasticity. (10)
- 1.1.3 Calculate the maximum tensile stress. (10)
- 1.1.4 Calculate the percentage change in length. (10)

Question 2

- 2.1 A towing ring (see figure) with a steel bar that consists of three sections with a wider section at the bottom. The towing ring weighs 40 kg and is dropped from a height of 60 mm to rest on the cable.



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G Psacharopoulos



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Table of Contents N5 Strength Of Material Previous Question Papers

1. Understanding the eBook N5 Strength Of Material Previous Question Papers
 - The Rise of Digital Reading N5 Strength Of Material Previous Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying N5 Strength Of Material Previous Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an N5 Strength Of Material Previous Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from N5 Strength Of Material Previous Question Papers
 - Personalized Recommendations
 - N5 Strength Of Material Previous Question Papers User Reviews and Ratings
 - N5 Strength Of Material Previous Question Papers and Bestseller Lists
5. Accessing N5 Strength Of Material Previous Question Papers Free and Paid eBooks
 - N5 Strength Of Material Previous Question Papers Public Domain eBooks
 - N5 Strength Of Material Previous Question Papers eBook Subscription Services
 - N5 Strength Of Material Previous Question Papers Budget-Friendly Options
6. Navigating N5 Strength Of Material Previous Question Papers eBook Formats

- ePub, PDF, MOBI, and More
 - N5 Strength Of Material Previous Question Papers Compatibility with Devices
 - N5 Strength Of Material Previous Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N5 Strength Of Material Previous Question Papers
 - Highlighting and Note-Taking N5 Strength Of Material Previous Question Papers
 - Interactive Elements N5 Strength Of Material Previous Question Papers
 8. Staying Engaged with N5 Strength Of Material Previous Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N5 Strength Of Material Previous Question Papers
 9. Balancing eBooks and Physical Books N5 Strength Of Material Previous Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N5 Strength Of Material Previous Question Papers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine N5 Strength Of Material Previous Question Papers
 - Setting Reading Goals N5 Strength Of Material Previous Question Papers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of N5 Strength Of Material Previous Question Papers
 - Fact-Checking eBook Content of N5 Strength Of Material Previous Question Papers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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