

# SAMPLE PAPER (2023 -24)

## CHEMISTRY THEORY (043)

Max. Marks:70

Time: 3 hours

General Instructions:

Read the following instructions carefully.

- (a) There are 33 questions in this question paper with internal choice.
  - (b) SECTION A consists of 16 multiple -choice questions carrying 1 mark each.
  - (c) SECTION B consists of 5 short answer questions carrying 2 marks each.
  - (d) SECTION C consists of 7 short answer questions carrying 3 marks each.
  - (e) SECTION D consists of 2 case - based questions carrying 4 marks each.
  - (f) SECTION E consists of 3 long answer questions carrying 5 marks each.
  - (g) All questions are compulsory.
  - (h) Use of log tables and calculators is not allowed.
- 

### SECTION A

The following questions are multiple -choice questions with one correct answer. Each question carries 1 mark. There is no internal choice in this section.

1. Which of the following solutions will have the highest conductivity at 298 K?
- (a) 0.01 M HCl solution
  - (b) 0.1 M HCl solution
  - (c) 0.01 M  $\text{CH}_3\text{COOH}$  solution
  - (d) 0.1 M  $\text{CH}_3\text{COOH}$  solution



Identify A and B:

- (a) A = 1-phenylethanal , B = acetophenone
  - (b) A = Benzophenone B = formaldehyde
  - (c) A = Benzaldehyde , B = Acetophenone
  - (d) A = Benzophenone , B = Acetophenone
3. The vitamins which can be stored in our body are:
- (a) Vitamin A, B, D and E
  - (b) Vitamin A, C, D and K
  - (c) Vitamin A, B, C and D
  - (d) Vitamin A, D, E and K
4. What is IUPAC name of the ketone A, which undergoes iodo form reaction to give  $\text{CH}_3\text{CH}=\text{C}(\text{CH}_3)\text{COONa}$  and yellow precipitate of  $\text{CHI}_3$ ?
- (a) 3-Methylpent-3-en-2-one
  - (b) 3-Methylbut-2-en- one
  - (c) 2, 3-Dimethylethanone
  - (d) 3-Methylpent-4-one
5. Which of the following is not correct?
- (a) In haloarenes, the electron pairs on halogen atom are in conjugation with  $\pi$ -electrons of the ring.
  - (b) The carbon-magnesium bond is covalent and non-polar in nature .
  - (c) During  $\text{S}_\text{N}1$  reaction, the carbocation formed in the slow step being  $\text{sp}^2$  hybridised is planar.
  - (d) Out of  $\text{CH}_2=\text{CH}-\text{Cl}$  and  $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$ ,  $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$  is more reactive towards  $\text{S}_\text{N}1$  reaction

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## **Table of Contents Sample Question Paper Applied Chemistry**

1. Understanding the eBook Sample Question Paper Applied Chemistry
  - The Rise of Digital Reading Sample Question Paper Applied Chemistry
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Question Paper Applied Chemistry
  - 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 Sample Question Paper Applied Chemistry
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Question Paper Applied Chemistry
  - Personalized Recommendations
  - Sample Question Paper Applied Chemistry User Reviews and Ratings

- Sample Question Paper Applied Chemistry and Bestseller Lists
- 5. Accessing Sample Question Paper Applied Chemistry Free and Paid eBooks
  - Sample Question Paper Applied Chemistry Public Domain eBooks
  - Sample Question Paper Applied Chemistry eBook Subscription Services
  - Sample Question Paper Applied Chemistry Budget-Friendly Options
- 6. Navigating Sample Question Paper Applied Chemistry eBook Formats
  - ePub, PDF, MOBI, and More
  - Sample Question Paper Applied Chemistry Compatibility with Devices
  - Sample Question Paper Applied Chemistry Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Question Paper Applied Chemistry
  - Highlighting and Note-Taking Sample Question Paper Applied Chemistry
  - Interactive Elements Sample Question Paper Applied Chemistry
- 8. Staying Engaged with Sample Question Paper Applied Chemistry
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Question Paper Applied Chemistry
- 9. Balancing eBooks and Physical Books Sample Question Paper Applied Chemistry
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sample Question Paper Applied Chemistry
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Question Paper Applied Chemistry
  - Setting Reading Goals Sample Question Paper Applied Chemistry
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Question Paper Applied Chemistry
  - Fact-Checking eBook Content of Sample Question Paper Applied Chemistry
  - 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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angle of chamfer is 30 or 45 with the base of the nut due to chamfering an arc is formed on each vertical face and a circle is formed on the top surface of the nut

**hex key wikipedia** - Aug 08 2022

web a hex key also hex wrench allen key and allen wrench or inbus is a simple driver for bolts or screws that have heads with internal hexagonal recesses hex keys are formed from a single piece of hard hexagonal steel rod having blunt ends that fit snugly into similarly shaped screw sockets the rods are bent to 90° forming two arms of unequal

*bolt fastener wikipedia* - Nov 11 2022

web head designs that overlap both bolts and screws are the allen or torx heads hexagonal or splined sockets these modern designs span a large range of sizes and can carry a considerable torque rusty hexagonal bolt heads the american institute of steel construction 13th edition steel design manual section 16 1 chapter j 3 specifies the

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web the formula used to calculate the bolt area is as follows bolt area  $ba = 0.7854 d^2 n$  in this formula  $d$  represents the bolt diameter in inches and  $n$  represents the number of threads per inch the bolt area is calculated by subtracting 0.9734 divided by the threads per inch from the bolt diameter and then squaring the

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web proximate joint and bolt stiffness is outlined in paragraph 5.0 the slope of the force angle of turn relationship can be represented by the following equation where  $k_b$  bolt spring rate lb/in  $k_c$  joint spring rate lb/in

calculation and drawing of hexagon bolt bolt nut by windo metal - Aug 20 2023

web jun 3 2020 calculation and drawing of hexagon bolt when drawing the bolt connection first calculate the nominal length  $l$  of the bolt the length of bolt  $l = k + m + g_1 + g_2 + b_1$  after calculating the length check the national standard and take the standard length  $l$  according to the bolt length series

*asme ansi b18.2.2 formulas for nut dimensions* - Jan 13 2023

web formulas for nut dimensions nuts appendix ii nut type square hex flat hex flat jam hex and hex slotted hex jam hex thick and hex thick slotted heavy square heavy hex flat heavy hex flat jam heavy hex and heavy hex slotted heavy hex jam see notes nut size 1/4 thru 5/8 3/4 thru 1 1/2 1 1/8 thru 1 1/2 1 1/8 1 1/4 thru 1 1/2 1 1/4

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following describes the three basic designs for prevailing torque type nuts 1 all metallic one piece construction nuts which derive their prevailing torque characteristics from controlled distortion of the nut thread and

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web feb 9 2023 other types of hexagonal bolts include lag bolts machine screws and structural bolts hexagonal bolts uses hexagonal bolts have a variety of uses depending on their size and design smaller hexagons are used to hold together furniture or machinery while larger ones are used to secure heavy loads in construction projects or

*what is the formula to design a hexagonal nut and bolts from a* - Apr 04 2022

web to design a hexagonal nut and bolt from a hexagonal or round bar your answer depends on whether you are using english or metric for metric you will use millimeters for english you will

**what is hex bolt properties dimensions and uses** - Feb 02 2022

web jan 17 2023 properties dimensions and uses january 17 2023 9 34 am hexagon bolts also known as hex cap screws and head bolts are a fastener used to assemble two or more items they are often found in construction projects and repairs but can also be used for other tasks such as furniture assembly

**in a hexagonal nut width across flats by the approximate** - Jun 06 2022

web mar 30 2023 standard conventional proportions may be considered while drawing a hexagonal nut width of the nut across the flat surface known as size across flat  $1.5d$   $3\text{ mm}$  the diameter of the nut  $d$  in mm the thickness of the nut  $0.8d$  to  $d$  the radius of front chamfer  $1.5d$  the angle of chamfer  $30^\circ$

*sr1 bolt calculation to vdi 2230 hexagon* - Apr 16 2023

web calculation basis sr1 software calculates in accordance with vdi 2230 high stress bolted joints with concentric or eccentric strain and load the calculation makes enables graphical representation of load extension diagrams and scale drawings quick input

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web feb 1 2019 this research identified nominal size thread pitch thread length  $r$  washer face thickness  $w$  fillet transition diameter  $t$  under head fillet maximum  $u$  minimum washer face diameter  $e$

**standard metric hex nuts per ansi asme b18.2.4.1m and** - Oct 10 2022

web fastener and screw bolt design formula calculations width across metric nut flats the width across flats of nut shall be the distance measured perpendicular to the axis of nut overall between two opposite sides of the nut in accordance with the

notes on respective dimensional tables

*bolted joints iit bombay* - Dec 12 2022

web me 423 machine design instructor rameshsingh thread nomenclature 12 bolt specification shigley s mechanical engineering design nominal diameter  $\frac{1}{4}$  20 x  $\frac{3}{4}$  in unc 2 grade 5 hex head bolt threads per inch length thread series class fit material grade head type m12 x 1 75 iso 4 8 hex head bolt metric nominal diameter pitch

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web jan 1 1993 design aid table of design properties for square hollow steel sections shs including section dimensions cross section properties area a second moment of area i elastic modulus wel plastic modulus wpl strength properties elastic moment mel plastic moment mpl plastic shear vpl and buckling properties section class buckling curves

table of design properties for metric steel bolts m5 to m39 - Jun 18 2023

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