

CIVIL ENGINEERING

Paper II

Time Allowed : Three Hours

Maximum Marks : 200

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

There are EIGHT questions in all, out of which FIVE are to be attempted.

Question Nos. 1 and 5 are compulsory. Out of the remaining SIX questions, THREE are to be attempted selecting at least ONE question from each of the two Sections A and B.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

All questions carry equal marks. The number of marks carried by a question/part is indicated against it.

Answers must be written in ENGLISH only.

Unless otherwise mentioned, symbols and notations have their usual standard meanings.

Assume suitable data, if necessary and indicate the same clearly.

Neat sketches may be drawn, wherever required.

SECTION 'A'

- 1.(a) A 9 degree curve branches off from a 8 degree main curve in an opposite direction in the layout of a M.G yard. If the speed restriction on main line is 40 km/hr., what would be the speed restriction on branch line ? Assume permissible cant deficiency as 50 mm. 8
- 1.(b) A two lane undivided State Highway with thick bituminous pavement surface in high rainfall region has horizontal curve of radius 2950 m. If design speed is 100 km/hr., what is the superelevation requirement ? Also draw the cross-section at curved portion. 8
- 1.(c) A line of levels was run from A to B. The levelling was then continued to a B.M. of elevation 40.0 m. The readings obtained are as under. Obtain the reduced level of A and B. 8

B.S	I.S	F.S	R.L	Remarks
1.195				A
0.445		2.370		
2.150		0.995		
	0.720			B
1.465		0.260		
2.630		0.905		
		1.305	40.0	B.M

- 1.(d) Explain in brief the important factors that affect the selection of Construction Equipment. 8
- 1.(c) Write short note on the following :
  - (i) Light weight aggregate concrete.
  - (ii) Types of rollers commonly used in construction projects for compacting soil. 8

# Diploma Civil Engineering Hydraulics Model Question Paper

**J Spring**



**Diploma Civil Engineering Hydraulics Model Question Paper:**

## **Diploma Civil Engineering Hydraulics Model Question Paper** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Diploma Civil Engineering Hydraulics Model Question Paper**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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### **Table of Contents Diploma Civil Engineering Hydraulics Model Question Paper**

1. Understanding the eBook Diploma Civil Engineering Hydraulics Model Question Paper
  - The Rise of Digital Reading Diploma Civil Engineering Hydraulics Model Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Diploma Civil Engineering Hydraulics Model Question Paper
  - 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 a Diploma Civil Engineering Hydraulics Model Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Diploma Civil Engineering Hydraulics Model Question Paper
  - Personalized Recommendations
  - Diploma Civil Engineering Hydraulics Model Question Paper User Reviews and Ratings

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- Diploma Civil Engineering Hydraulics Model Question Paper and Bestseller Lists
- 5. Accessing Diploma Civil Engineering Hydraulics Model Question Paper Free and Paid eBooks
  - Diploma Civil Engineering Hydraulics Model Question Paper Public Domain eBooks
  - Diploma Civil Engineering Hydraulics Model Question Paper eBook Subscription Services
  - Diploma Civil Engineering Hydraulics Model Question Paper Budget-Friendly Options
- 6. Navigating Diploma Civil Engineering Hydraulics Model Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Diploma Civil Engineering Hydraulics Model Question Paper Compatibility with Devices
  - Diploma Civil Engineering Hydraulics Model Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Diploma Civil Engineering Hydraulics Model Question Paper
  - Highlighting and Note-Taking Diploma Civil Engineering Hydraulics Model Question Paper
  - Interactive Elements Diploma Civil Engineering Hydraulics Model Question Paper
- 8. Staying Engaged with Diploma Civil Engineering Hydraulics Model Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Diploma Civil Engineering Hydraulics Model Question Paper
- 9. Balancing eBooks and Physical Books Diploma Civil Engineering Hydraulics Model Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Diploma Civil Engineering Hydraulics Model Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Diploma Civil Engineering Hydraulics Model Question Paper
  - Setting Reading Goals Diploma Civil Engineering Hydraulics Model Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Diploma Civil Engineering Hydraulics Model Question Paper
  - Fact-Checking eBook Content of Diploma Civil Engineering Hydraulics Model Question Paper
  - 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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Answers For the electronic transition from  $n = 3$  to  $n = 5$  in the hydrogen atom. a) Calculate the energy. b) Calculate the wavelength (in nm). Chapter 25 Nuclear Chemistry 25.2 Nuclear Transformations Sep 5, 2017 — Nuclear Chemistry Targets: 1.I CAN Utilize appropriate scientific vocabulary to explain scientific concepts. 2.I CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay? It decreases by 2. b. ... answer the following questions. **Nuclear** ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208  $^{208}\text{Fr} \rightarrow \text{b} \dots$