

**Sample Question Paper-I**

Course Name : Computer Engineering Group

Course Code : CO/CM/IF/CD

Semester : Second

Subject Title : Electronics

Max Marks : 100

**12025**

Time: 3 Hours

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**Instructions:**

1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.

**Q.1 Attempt Any TEN of the Following:**

**2 X 10 = 20**

- a) Define electronics and give its two applications.
- b) Draw and label energy band diagram of intrinsic semiconductor.
- c) What is doping.
- d) Define depletion region for diode.
- e) List types of rectifiers.
- f) Draw circuit diagram of  $\pi$  filter.
- g) Draw internal structure of NPN transistor.
- h) List the type couplings used to cascade the two stages of amplifiers.
- i) State applications of FET.
- j) List the advantages of IC over discrete component.
- k) Define alpha and  $\beta$  for transistor.
- l) Draw internal structure of n type semiconductor.

**Q.2 Attempt Any FOUR of the Following:**

**4 X 4 = 16**

- a) Describe with diagram generation of electron – hole pair in an intrinsic semiconductor.
- b) Why semiconductor is called as insulator at  $0^{\circ}$  Kelvin.
- c) Describe formation of depletion region in an open circuit PN junction.
- d) Draw circuit diagram to plot the characteristics of zener diode in reverse biased mode.
- e) Draw the symbol of step up and step down transformer.
- f) Describe the operation of pn junction under forward bias condition.

# Sample Question Paper Diploma Computer Engineering

**Ezendu Ariwa, Eyas El-Qawasmeh**

## **Sample Question Paper Diploma Computer Engineering:**

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Anuradha A. Puntambekar,2020-12-01 This textbook has been written in such a way that the concepts are explained with the help of examples The book covers the topics right from basics of PHP programming such as variables data types operators control structures arrays to graphics The book also covers implementation of object oriented concepts such as classes objects inheritance overloading and so on In the next subsequent unit the textbook covers creating and validating forms Finally the book explains how to connect to database using PHP and MySQL laying more stress on examples Thus this book helps the students to learn the PHP programming in the most lucid way

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visionary while being close enough to ensure some anchorage to reality The result is a scholarly set of contributions expressing the visions hopes concerns predictions and analyses of trends of the future of a discipline that continues to impact greatly on the wider community One of the interesting aspects of asking people to consider the future is the extent to which it ultimately sheds light on the present this concept is explored by the editor in his review of the contributions as a whole

**A Textbook of Artificial Intelligence for Class IX (A.Y. 2023-24)Onward** Hema Dhingra,2023-05-20 The term artificial intelligence may sound intimidating to some but it has been in use for decades and its applications are more common than you might imagine It is gaining the spotlight across applications in our personal and professional lives AI is still at a relatively early stage of development so that the range of potential applications have ample scope left for further development It holds the promise of solving some of the most pressing issues facing society but also presents challenges such as unethical use of data and potential job displacement There are so many amazing ways artificial intelligence and machine learning are used behind the scenes to impact our everyday lives AI assists in every area of our lives whether we re trying to read our emails get driving directions get music or movie recommendations AI is a constellation of technologies that enable machines to act with higher levels of intelligence and emulate the human capabilities of sense comprehend and act AI is not specifically related to computer science This is a field of study that encompasses human behaviour biology psychology and even language and linguistics AI presents opportunities to complement and supplement human intelligence and enrich the way people live and work Artificial Intelligence is being widely recognized to be the power that will fuel this future global digital economy Countries around the world are becoming increasingly aware of the potential benefits of developing and applying AI From SIRI to self driving cars artificial intelligence AI is progressing rapidly While science fiction often portrays AI as robots with human like characteristics AI can encompass anything from Google s search algorithms to IBM s Watson to autonomous weapons From Amazon shopping recommendations Facebook image recognition and personal assistants like Siri Cortana and Alexa your phone is becoming a portal to real world applications of artificial intelligence This book is a glimpse into the future that illustrates how AI will continue to transform our daily lives in the near future Digitalisation and the new technological possibilities that artificial intelligence AI brings are driving the biggest social and economic changes since the industrial revolution Without the right political economic and ethical framework conditions there is a risk of uncontrolled development and a negative impact of AI Artificial intelligence AI is doing a lot of good and will continue to provide many benefits for our modern world but along with the good there will inevitably be negative consequences The sooner we begin to contemplate what those might be the better equipped we will be to mitigate and manage the dangers While writing the book we have tried to keep the explanation simple with lots of examples and illustrations Lastly there is always a scope of improvement Thus it is a request to our esteemed readers to send the feedback and suggestions etc for the improvement of the book All your requests are welcome [Developing a Keyword Extractor and Document Classifier: Emerging Research](#)

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## **Sample Question Paper Diploma Computer Engineering** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Sample Question Paper Diploma Computer Engineering**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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