

Based on Revised Syllabus (M4-R5.1)

# 'O' Level Question Bank

**INTERNET OF THINGS AND ITS APPLICATIONS**

First Edition

English Medium

Author

VIPIN KUMAR SARAOGI

# **ASTHA PUBLICATIONS**

B-45, Ganesh Colony, Nutan Market Pilani-333031 (Rajasthan)

**Published by**

# **ASTHA PUBLICATIONS**

**B-45, Ganesh Colony, Pilani-333031 (Rajasthan)**

**Phone No. 01596-295919, 9887871616**

**Website: [www.asthapublications.com](http://www.asthapublications.com)**

**E-mail: [asthapublications@Yahoo.com](mailto:asthapublications@Yahoo.com)**

## **© All Right Reversed**

Copyright © 2023 by the Astha Publications No part of this publication may be reproduced, stored in a retrieval system, used in a spreadsheet, or transmitted in any form or by any means electronic, mechanical, photocopying or otherwise-without prior permission in written permission of the publisher.

**First Edition: 2023**

**ISBN: 978-81-958641-3-3**

**Ref. No. : QBI036E125**

**MRP: ₹ 125/- (One Hundred Twenty Five Only)**

For any clarification regarding this book, the student may please write to Astha Publications giving the above reference number for this including chapter number and page number.

While every possible care has been taken in typesetting and printing this book, publisher welcomes suggestions from students for improvement in future editions.

# Preface

Today most of our work of life are completed with the help of computer, internet, mobile and others digital financial services. Today, you can sent the information easily and quickly anywhere in the world with the help of internet. Besides this, you can also access the data and information about any subject with the help of internet. For this it is necessary, you have basic knowledge of computer, Internet and digital financial tools. To increase the digital literacy, government and many non government organization launch the some programs. 'O' Level is also a digital literacy program that is managed and run by NIELIT (National Institute of Electronics and Information Technology).

The book is prepare specially for 'O' Level exam preparation according to the first paper (M4-R5.1: IT Tools and Network Basics). This book is divide into 9 parts and each part describe a special topic, such as Introduction to IoT – Applications/Devices, Protocols and Communication, Things and Connections, Sensors, Actuators and Microcontrollers, Building IoT Applications, Security and Future of IoT Ecosystem, Soft skills-Personality Development. This book have more than 2700 questions according to the syllabus. One sample question paper also given at the end of this book.

We express our sincere thanks to the learns for their valuable suggestions for improving the quality of the book. Suggestions for further improvement of the book will be thankfully received and acknowledged.

**Author**

# INDEXING

---

<b>1. Introduction to IoT – Applications/Devices.....</b>	<b>1-17</b>
<b>2. Things and Connections.....</b>	<b>18-56</b>
<b>3. Sensors, Actuators and Microcontrollers.....</b>	<b>57-91</b>
<b>4. Building IoT Applications.....</b>	<b>92-129</b>
<b>5. Security and Future of IoT Ecosystem.....</b>	<b>130-169</b>
<b>6. Soft skills-Personality Development.....</b>	<b>170-216</b>
<b>7. Sample Paper.....</b>	<b>217-226</b>