

Enrollment No.

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DIPLOMA IN ENGG. (CSE)
III YEAR, V SEM. EXAMINATION
INTERNET OF THINGS

[Time : 2:30 Hours]

[Max. Marks : 50]

Note/Instructions: Additional sheets may be used, if required.

i) Attempt all questions as per given instructions.		
ii) Marks are indicated against each section.		
iii) Assume missing data if any.		
Ques.1	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	Explain BAN, PAN and NFC networks.	
(b)	What is the ZigBee?	
(c)	Define the terms: (a) Bread board (b) Register	
Ques.2	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What are the different types of Sensors used in IoT Network?	
(b)	Differentiate between Breadboard and PCB.	
(c)	Define Smart Agriculture with the help of diagram.	
Ques.3	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	How do IoT devices communicate? Explain with suitable diagrams	
(b)	Explain the different characteristics of IoT.	
(c)	What is a Wireless Sensor Network? Mention the applications of it.	
Ques.4	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What is Radio Frequency Identification system? How does it work? Explain	
(b)	Discuss the role of Data Analytics in Internet of Things (IoT).	
(c)	What is IoT connectivity?	
Ques.5	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	Define End Device.	
(b)	Explain different application layer protocols for the IoT	
(c)	What is network ?and also explain what kind of networking in IoT?	

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DIPLOMA IN ENGG. (CSE)

III YEAR, V SEM. EXAMINATION

COMPUTER ARCHITECTURE AND HARDWARE MAINTENANCE

[Time : 2:30 Hours]

[Max. Marks : 50]

Note/Instructions: Additional sheets may be used, if required.

- i) Attempt all questions as per given instructions. दिए गए निर्देशों के अनुसार सभी प्रश्नों का प्रयास करें।
- ii) Marks are indicated against each section. प्रत्येक खंड के खिलाफ निशान दर्शाए गए हैं।
- iii) Assume missing data if any. अनुपस्थित डेटा मान लें यदि कोई हो।

Ques.1	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	Explain about RAM chip.	
(b)	Write short note on Read and Write operation.	
(c)	What is the BIOS? And its function.	
Ques.2	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	Explain the Booth algorithm With the help of Flow chart.	
(b)	Describe the type of mode used to transfer the data.	
(c)	Explain architecture of the 8085 Microprocessor.	
Ques.3	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What is the Auxiliary Memory?	
(b)	Solve the expression $X = (A+B) * (C+D)$ using 3 address	
(c)	Define one address with the help of example.	
Ques.4	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	Explain how to access I/O devices in a system	
(b)	Explain about the arithmetic micro operations.	
(c)	What is pipeline?	
Ques.5	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What is the Strobe signal?	
(b)	Define addressing modes.	
(c)	Explain the pin diagram of 8085 microprocessor.	

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DIPLOMA IN ENGG. (CSE)
III YEAR, V SEM. EXAMINATION
COMPUTER PROGRAMMING USING PYTHON

[Time : 2:30 Hours]

[Max. Marks : 50]

Note/Instructions: Additional sheets may be used, if required.

i) Attempt all questions as per given instructions. दिए गए निर्देशों के अनुसार सभी प्रश्नों का प्रयास करें।		
ii) Marks are indicated against each section. प्रत्येक खंड के खिलाफ निशान दर्शाए गए हैं।		
iii) Assume missing data if any. अनुपस्थित डेटा मान लें यदि कोई हो।		
Ques.1	Answer ANY TWO of the following questions	(5X 2=10)
(a)	Why to use modules? How to structure a program?	
(b)	Explain creating classes in Python with examples.	
(c)	Distinguish between local and global variables with examples.	
Ques.2	Answer ANY TWO of the following questions	(5X 2=10)
(a)	What are the different operations that can be performed on a tuple? Explain with examples	
(b)	Explain about the need for learning python programming and its importance.	
(c)	Write in brief about any 5 keywords in Python.	
Ques.3	Answer ANY TWO of the following questions	(5X 2=10)
(a)	Explain lambda in python with example .why use Lambda functions.	
(b)	Write a short note on : a) If statement with example b) If else statement with example	
(c)	Explain inheritance class with suitable example	
Ques.4	Answer ANY TWO of the following questions	(5X 2=10)
(a)	Compare python syntax with other programming languages syntax with example.	
(b)	Explain the following list methods with an example. a) append() b) extend() c) insert() d) index() e) sort()	
(c)	Explain bitwise operators with example.	
Ques.5	Answer ANY TWO of the following questions	(5X 2=10)
(a)	Write a short note on Quantifiers in python and write regular expression of Quantifiers.	
(b)	Write a Python program to print all prime numbers less than 256.	
(c)	Explain about different Logical operators in python with appropriate examples	

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DIPLOMA IN ENGG. (CSE)
III YEAR, V SEM. EXAMINATION
WEB DEVELOPMENT USING PHP

[Time : 2:30 Hours]

[Max. Marks : 50]

Note/Instructions: Additional sheets may be used, if required.

i) Attempt all questions as per given instructions. दिए गए निर्देशों के अनुसार सभी प्रश्नों का प्रयास करें।

ii) Marks are indicated against each section. प्रत्येक खंड के खिलाफ निशान दर्शाए गए हैं।

iii) Assume missing data if any. अनुपस्थित डेटा मान लें यदि कोई हो।

Ques.1	Answer <i>ANY TWO</i> of the following questions निम्नलिखित प्रश्नों में से किसी दो का उत्तर दें	(5X 2=10)
(a)	How to create Post, Web Page, theme using Word Press (In Detail)	
(b)	Discuss different types of tables in mySql.	
(c)	Discuss different Loops available in php	
Ques.2	Answer <i>ANY TWO</i> of the following questions निम्नलिखित प्रश्नों में से किसी दो का उत्तर दें	(5X 2=10)
(a)	What is Session ? Where you will use it in web programming ?	
(b)	Write a php Script to list data in table from database.	
(c)	Write a php script to list databases available in MySQL database server.	
Ques.3	Answer <i>ANY TWO</i> of the following questions निम्नलिखित प्रश्नों में से किसी दो का उत्तर दें	(5X 2=10)
(a)	How comments are given in PHP code ?	
(b)	What is MySQL? What are the different data types in MySQL? Explain each of them with suitable example.	
(c)	Write connectivity and selecting database statement which is used to connect PHP with MySQL.	
Ques.4	Answer <i>ANY TWO</i> of the following questions निम्नलिखित प्रश्नों में से किसी दो का उत्तर दें	(5X 2=10)
(a)	Explain web page validation using AJAX with example?	
(b)	How is a form connected to a database?	
(c)	Write connectivity and selecting database statement which is used to connect PHP with MySQL.	
Ques.5	Answer <i>ANY TWO</i> of the following questions निम्नलिखित प्रश्नों में से किसी दो का उत्तर दें	(5X 2=10)
(a)	Step by Step Installation Process of XAMMP SERVER.	
(b)	What are the properties of XMLHttpRequest?	
(c)	What are the types of open() method used for XMLHttpRequest?	

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DIPLOMA IN ENGG. (CSE)
III YEAR, V SEM. EXAMINATION
SOFTWARE ENGINEERING

Time : 2:30 Hours]

[Max. Marks : 50]

Note/Instructions: Additional sheets may be used, if required.

i. Attempt all questions as per given instructions. दिए गए निर्देशों के अनुसार सभी प्रश्नों का प्रयास करें।		
ii. Marks are indicated against each section. प्रत्येक खंड के खिलाफ निशान दर्शाए गए हैं।		
iii. Assume missing data if any. अनुपस्थित डेटा मान लें यदि कोई हो।		
Ques.1	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What is the difference between software and hardware?	
(b)	What do you mean by maintenance management?	
(c)	What is the SDLC?	
Ques.2	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What is the white box testing?	
(b)	What do you mean by SRS?	
(c)	Explain 0 level and 1 level of DFD?	
Ques.3	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What is the cohesion and coupling ?	
(b)	What is the black box testing?	
(c)	What is the regression testing?	
Ques.4	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What is the prototype model explain advantage and disadvantage ?	
(b)	What is the spiral model?	
(c)	What is the difference between function and procedural testing?	
Ques.5	Answer <i>ANY TWO</i> of the following questions	(5X 2=10)
(a)	What is the COCOMO model?	
(b)	Explain water fall model with advantage and disadvantage?	
(c)	Explain integration testing?	
