4005-02	No. of Pages : 4
Degree (Part-1) Vocational	(Hons.) Examination, 2019
INFORMATION	TECHNOLOGY
	: Second
	V(H)-IT - 2
Time : Three Hours	Maximum Marks : 75

Note : The questions are of equal value. Answer five questions, selecting at least one from each group



1. What are the different types of languages that are available in the DBMS ? Explain the concepts of a Primary Key and Foreign Key.



What are the different levels of abstraction in the DBMS?

3. Explain Data anomalies with suitable example.

What is Normalization ? Explain 2NF and 3NF with example.

4()()5-()2/4()()

(1)

GROUP-B

- 5. Define Operating System. What is the relationship between operating system and computer hardware ? Differentiate between Batch processing system and Real Time Processing System.
- 6. What is a Process ? Explain the different states of process with diagram.



- What is Deadlock ? Elaborate the necessary conditions for deadlock.
- 8. Write short per on the following om
 - (a) DMA
 - (b) Paging
 - (c) Virtual Memory

GROUP-C

- 9. What are Diodes ? Explain the characteristics of Zener diode and Photo diode.
- 10. What are Multivibrators ? Explain MOSFET and CMOS.

https://ppulearn.com

11. Explain the following :

.

- (a) p-n junction
- (b) Band Theory
- 12. What is a Resistance ? Explain different types of resistance and color coding of resistance.

----- X -----



