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Code: 091405

B.Pharm 4th Semester Theory Examination, 2017 Basic Electronics and Computer Applications

Time: 3 hours Full Marks: 70

Instructions:

- (i) There are Nine Questions in this Paper.
- (ii) Attempt Five questions in all.
- (iii) Question No. 1 is Compulsory.
- (iv) The marks are indicated in the right-hand margin.
- 1. Answer any seven of the following: $2 \times 7 = 14$
- List different application areas of computer in pharmaceutical and clinical studies.
- What is the difference between RAM and ROM?
- (c) What is the difference between compiler and interpreter?
- Define MS-DOS operating system.
 - (e) What is system software?
 - (f) What do you mean by aspect ratio?
 - (g) What is a Digital Computer?
 - (h) What is LAN?
 - What do you mean by hierarchy of operators in C programming language?
 -) (i) Define Binary tree.

2/(a) What is a photo diode? State and explain some	e of its
applications?	6
(b) Explain different generations of Computer develo	opment
with examples.	8
2. (a) Explain different classification of Computers wi	th their
characteristics and differences.	7
(b) Define Operating System. What are the different	roles of
an Operating System within a Computer?	7
4. (a) What is Computer Graphics? What are the app	lication
areas of computer Graphics in Clinical and pharma	aceutical
studies?	6
(b) Define Computer Network. Explain the seven	en layer
architecture of Communications.	8
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5. (a) Explains the functions of following units in a c	omputer
system:	2×3=6
(i) ALU	(A)
(ii) Control Unit	
(iii) Processing Unit	N.
(b) Define Flow Chart. How a flow chart doe	es help a
computer programmer? Draw a flow chart to fi	nd area o
a rectangle.	8
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6. (a) Define variable used in BASIC programming. What are	
the rules for naming the numeric and string variables in	
BASIC?	
(b) Explain through simple examples, three different ways of	
assigning values to the variables in BASIC. 7	
7. (a) Define Queue. List out the basic operations that can be	
performed on a queue. How it is different form stack?	
8	
(b) Define data structure. What are the differences between	
/ an Array and a Linked list? 6	
8. (a) What is the role of TAB function in BASIC programming?	
4	
(b) Explain the difference between PRINT and LPRINT	
commands used in BASIC programming language. 5	
(c) What are the differences between function and	
subroutine? 5	
9 (a) Explain the working of a half wave rectifier with a neat	
circuit diagram and waveform.	
(b) What is a transistor? Explain its configuration.	
(c) Explain Integrated Circuit and its applications in brief. 4	
