9.		Explain communication between various units of a computer system.	6
	(b)	Explain the different types of computer networks.	8
10	.(a)	What is an Universal Gate? Implement AND, OR gate using Universal Gate.	5
,	(b)	What is RAM? Explain its different types.	5
	(c)	What are optical disks? Explain its different types.	4

(c) Differentiate between System Software and Application Software.	4	6. (a) Convert the decimal number 82.67 to its binary, octal and hexadecimal eqivalents.
3. (a) Explain the different ways to connect to internet.	5	(b) Add (20) ₁₀ and (-16) ₁₀ using 2's complement.
(b) Explain different types of ROM.	5	(c) Prove the following Boolean identities using the laws of Boolean algebra:
(c) Differentiate between impact and non- impact printers.	4	(i) $(A+B)(A+C) = A+BC$
4. (a) Explain how does the e-mail works. Also explain in detail the different e-mail proto-	6	(ii) $ABC + AB'C + ABC' = A(B+C)$
cols.(b) What are the advantages and disadvantages	7.	(a) What are the characteristics of different generation of computers? Explain them.
of Computers?	1	(b) What are the advantages and disadvantages of using internet?
(c) Convert the decimal number 127 to octal and hexadecimal system.	,	(c) Differentiate between algorithm and pseudocode.
5. (a) Explain the different types of network topolo-		
gies. What are the advantages and disadvantages of using these topologies?	8.	(a) Explain input devices with suitable examples.
(b) What are the main components of CPU? Discuss them in detail with diagram.		b) Explain different forms of virus attacks and the ways to get protection from these attacks.
DHA-BCA(102) (Continued)	UDHA	A-BCA(102) (Turn Over

2016

Full Marks: 70

Time: 3 hours

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Answer any five questions.

The figures in the right-hand margin indicate marks

Candidates are required to give their answer in their own words as far as practicable

- (a) Explain the different generation of computer languages.
 (b) What is an Operating System? Explain its
- (b) What is an Operating System.
 (different types with examples.
 (c) Differentiate between Primary Memory and Secondary Memory.
- 2. (a) Explain different components of computer networks.
- (b) What are storage devices? Explain its different types.

(Turn Over)