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B.C.A. Examination, 2016

First Semester

First Paper

(Computer Fundamental and Office Automation)

Time : Three Hours

Maximum Marks : 75

Note : Attempt any **five** questions. All questions carry equal marks.

1. Design a block diagram of the CPU of a digital computer and explain its Function and advantages towards Scientific Computing.

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2. (a) Write the devices Invented during fifth Generation of Computer System. Explain these. MGKVPonline.com 7

(b) Write the Properties of Mini and Micro Computer systems. Support your answer with examples. 8

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3. Explain the hierarchy of Memory System. Explain it for different kinds of Memory.

4. (a) Convert the following : $5 \times 2 = 10$

(i) $(10001)_2 = (?)_{10}$

(ii) $(156.25)_{10} = (?)_2$

(iii) $(101010)_2 = (?)_8$

(iv) $(128)_{16} = (?)_8$

(v) $(96)_{10} = (?)_{16}$

(b) Write brief note on : $2 \times 2.5 = 5$

(i) DMA MGKVPonline.com

(ii) Different Drives in Desktop PC

5. What are the difference between flowchart and algorithm? Support it with an illustrative example of bubble sort on the number set :

5, 3, 2, 1, 0, -1, -3, 8, 10, 15. 15

6. Explain the following operating system : **4131**

MGKVPonline.com $3 \times 5 = 15$

(i) Windows 8.1

(ii) Linux

(iii) Unix

7. What are the components of MS-Office. Explain each of them with example. 15

8. (i) Write down the properties of Paint brush. 7

(ii) Design a flowchart for finding the roots of $ax^2+bx+c=0$ MGKVPonline.com 8

9. What are different types of I/O devices? Explain each of them with example. 15

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10. Write short notes on any **three** of the following : MGKVPonline.com $5 \times 3 = 15$

(i) LED

(ii) Control Panel

(iii) Task Manager

(iv) Editors

(v) Dos

(vi) Data Organisation

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