Roll No. ....

B.C.A. (I)

1704   **Fun. of Comput.**

B.C.A. (PART - I) EXAMINATION - 2020

Paper-IV

BCA-104 : FUNDAMENTALS OF COMPUTERS

Time - Three Hours

Maximum Marks - 80

Note:- (1) Question No. 1 is compulsory . Attempt any FOUR questions from the remaining questions .

(2) All questions carry equal marks .

नोट:— (1) प्रश्न संख्या 1 अनिवार्य है। शेष प्रश्नों में से किन्हीं चार को हल कीजिये।

(2) सभी प्रश्नों के अंक समान हैं।

1.   (a)   What is system software ?

      (b)   What do you understand by booting process?

      (c)   What is floppy disk? How it is different from hard disk .

      (d)   Differentiate between internal and external command in DOS .

      (e)   Write the limitations of computers .

      (f)   Differentiate between cold booting and warm booting .

      (g)   Write full form of OMR and ISDN .

      (h)   What is Joystick .

$$2 \times 8 = 16$$

2.   (a)   Explain the various components of computer system .

      (b)   What are the main functions of an operating system ? Discuss in detail . $8 \times 2 = 16$

3.   Write short note on followings :

      (i)   Modulations in computer networking .

      (ii)   Communication protocol .

      (iii)   FAT file system .

      (iv)   Communication channels .

$$4 \times 4 = 16$$

4.   (a)   Differentiate between impact and non impact printers with suitable example .

      (b)   Explain Analog and Hybrid computers .

$$8 \times 2 = 16$$

5.   (a)   What is virus? Explain how we can detect and prevent viruses from our computer.

   (b)   Explain characteristics and working of following devices.

   (i)   Barcode Reader.

   (ii)   Track boll.   8x2 = 16

6.   Explain the following DOS command.

   (i)   ATTRIB

   (ii)   SORT

   (iii)   X COPY

   (iv)   PATH

                                      4x4 = 16

7.   (a)   What are the characteristics of data communication?

   (b)   Differentiate between low level and high level language.

                                      8x2 = 16

8.   (a)   What is Topology and explain different type of topology available in computer network.

   (b)   Explain different type of memory in computer.

                                      8x2 = 16