Roll No. ....

Y – 4915

P.G.D.C.A. (First Semester)
EXAMINATION, Dec.-2021

Paper-101

COMPUTER FUNDAMENTALS

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note– Attempt *one* question from each unit including all parts of question.

Unit-I

1. (a) Explain the difference among ROM, PROM and EPROM.   10

   (b) Describe the functions of basic components of computer system.   10

   Or

   Explain various types of computers along with their relatives advantages and disadvantages.   20

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Unit-II

2. (a) Explain impact printer. Differentiate between printer and plotter.   10

   (b) Describe characteristics of monitors in detail.   10

   Or

   Write short notes on the following (any *four*)—   4×5=20

   (i) MICR.

   (ii) Scanners.

   (iii) CD-ROM.

   (iv) Flash Memory.

   (v) Bar code Readers.

   (vi) Touch screen.

Unit-III

3. (a) What do you understand from Operating system ? Explain functions of operating system in detail.   10

   (b) Explain the need and characteristics of database management software.   10

   Or

   Explain the difference among the following on the basis of their relative merits and demerit—   20

   (i) Assemblers.

   (ii) Compilers.

   (iii) Interpreters.

Unit-IV

4. (a) Describe various industrial applications of computers in detail. 10

   (b) Write an explanatory note on CAD/CAM. 10

Or

Explain the following in detail— 20

   (i) Digital image processing.

   (ii) Library information System.

Unit-V

5. (a) Describe the types of network topologies in detail. 10

   (b) Differentiate between LAN, MAN and WAN on basis of their characteristics in detail. 10

Or

   (a) Write an explanatory note on communication modes of network. 10

   (b) What do you understand from MODEM? Explain its purpose and characteristics. 10