

S.Y. Diploma in Operations Research

May, 2008

Paper. VIII - Use of computer in Operation Research

Mha I -07 622

Con. 2269-08.

BB-8608

( 3 Hours )

[ Total Marks : 100

**N.B. :—** (1) Attempt any **five** questions.  
(2) **All** questions carry **equal** marks. (20 each)

1. Explain decimal, binary, octal, hexadecimal number systems. How are the numbers from one number system to another converted ? How are the mathematical operators are used on binary numbers ?
  2. What are the auxiliary storage devices ? Justify the use of auxiliary storage devices. Explain functioning of a floppy disk.
  3. Explain the salient features of five generations of computer programming languages.
  4. Why do you need database management systems ? What are the services provided by a database management system ?
  5. How microsoft excel and its features useful in Operations Research ? What are other software packages you are aware of ? Which can be used to solve O.R. problems ?
  6. Explain Entity relationships. What is E-R diagram ? Show how E-R diagrams are used.
  7. What do you understand by simulation ? What are simulation models ? Name some simulators that are available. When one uses simulation model ?
  8. What is Management Information System (MIS) ? What are the various stages in building/ developing MIS ? What is query language ?
  9. If you wish to buy computer system for your personal use, what features would you look for ? If you are buying it for your organization then will the criteria change ? Why ?
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