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महाराजा गंगा सिंह विश्वविद्यालय  
**Maharaja Ganga Singh University**

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**Pre-Admission Entrance Test 2017**  
**M.Sc. (Computer Science) Semester System**

**Maximum Marks: 50**

**Scheme of Question Paper:**

The question paper will contain 50 multiple choice question based on the following syllabus. Each question carries one mark. There will be no negative marking.

**Syllabus:**

1. Problem Solving, Data Interpretation, Data Sufficiency, Logical Reasoning, Mental Ability and Analytical Reasoning. Set Theory, Set Operations.
2. Overview of the Computer System including input-output devices, pointing devices and scanner.
3. Introduction to Operating System, Word Processing (MS-Word), Spread Sheet Software (MS-Excel), Presentation Software (MS-Power point), DBMS Software (MS-Access).
4. Representation of Data (Digital vs. Analog, Number System – Decimal, Binary & Hexa Decimal), Introduction to Data Processing, Concepts of files and its types.
5. Introduction of Internet Technology and Protocol, LAN, MAN, WAN, Search Engines, Introduction to online and offline messaging, World Wide Web Browsers, Web publishing, Creation and maintenance of websites, HTML interactivity tools, Multimedia and graphics, Voice mail and Video Conferencing, Introduction to e-Commerce.
6. Security: Protecting Computer Systems from virus and malicious attacks, Introduction to Firewalls and its utility, Backup & Restoring data.
7. Algorithms for problem solving, Introduction to C++ language, Principles and Programming Techniques, Introduction of Object Oriented Programming (OOPs) concepts, Introduction to “Integrated Development Environment” and its advantages.

**Sample Question:**

Q1. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?

- A) Grandfather                      B) Grandmother  
C) Daughter                          D) Granddaughter

Q2. Which of the following is an exit control loop in C++ language?

- A) For Loop                              B) While Loop  
C) Do While Loop                      D) None of the above

Q3. What will be the output of following code snippet?

```
i=10;
while(i<=11)
{ i++; }
cout<< i;
```

- A) 11                      B) 12                      C) 10                      D) None of the above