

## CONTENTS

### *(COMPUTER SCIENCE)*

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	<i>Page Nos.</i>
PRACTICE SET - 1 .....	1-6
PRACTICE SET - 2 .....	7-12
PRACTICE SET - 3 .....	13-19
PRACTICE SET - 4 .....	20-25
PRACTICE SET - 5 .....	26-31
PRACTICE SET - 6 .....	32-38
PRACTICE SET - 7 .....	39-45
PRACTICE SET - 8 .....	46-52
PRACTICE SET - 9 .....	53-58
PRACTICE SET - 10 .....	59-65
PRACTICE SET - 11 .....	66-72
PRACTICE SET - 12 .....	73-78
PRACTICE SET - 13 .....	79-85
PRACTICE SET - 14 .....	86-91
PRACTICE SET - 15 .....	92-98
PRACTICE SET - 16 .....	99-104
PRACTICE SET - 17 .....	105-110
PRACTICE SET - 18 .....	111-117
PRACTICE SET - 19 .....	118-123
PRACTICE SET - 20 .....	124-129
PRACTICE SET - 21 .....	130-136
PRACTICE SET - 22 .....	137-142
PRACTICE SET - 23 .....	143-148
PRACTICE SET - 24 .....	149-154
PRACTICE SET - 25 .....	155-160





# **PRACTICE SET - 1**



**Read the following passage carefully and answer the following (Q.Nos. 8-11) questions :**

In computing, SISD (single instruction, single data) is a term referring to a computer architecture in which a single processor, a uniprocessor, executes a single instruction stream, to operate on data stored in a single memory. This corresponds to the von Neumann architecture.

SISD is one of the four main classifications as defined in Flynn's taxonomy. In this system classifications are based upon the number of concurrent instructions and data streams present in the computer architecture. According to Michael J. Flynn, SISD can have concurrent processing characteristics. Instruction fetching and pipelined execution of instructions are common examples found in most modern SISD computers.

In computing, MISD (multiple instruction, single data) is a type of parallel computing architecture where many functional units perform different operations on the same data. Pipeline architectures belong to this type, though a purist might say that the data is different after processing by each stage in the pipeline. Fault-tolerant computers executing the same instructions redundantly in order to detect and mask errors, in a manner known as task replication, may be considered to belong to this type. Not many instances of this architecture exist, as MIMD and SIMD are often more appropriate for common data parallel techniques. Specifically, they allow better scaling and use of computational resources than MISD does. However, one prominent example of MISD in computing are the Space Shuttle flight control computers.