On Hen Raj Sam

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- December 2017 M.Tech.-I Semester

COURSE CODE: 10M1WCI131

MAX. MARKS: 35

COURSE NAME: SYSTEM AND NETWORK SECURITY TECHNIQUES

COURSE CREDITS: 03

MAX. TIME: 2Hr.

Note: All questions are compulsory. Carrying of mobile phone during examination will be treated as case of unfair means.

- 1. [4 Marks] What is IDS? Give it's pictorial representation. What are the limitations of IDS?
- 2. [5 Marks] What are different steps to implement Genetic Algorithm? Explain in detail.
- 3. [5 Marks] What is LEAP process? What are its limitations? Explain.
- 4. [5 Marks] Explain distributed intrusion detection system, Provide it's architecture. Also give it's step by step working in detail.
- 5. [8 Marks] Consider the following code and generate its PDG after considering control dependencies, loop-independent flow dependence, loop-carried flow dependence, deforder dependence.

```
Program Main
```

sum:=0;

i=1;

while I<11 do

sum:=sum+1;

od

end(sum, i)

6. [8 Marks] How Dempster-Shafer theory is used to detect intrusions in cognitive radio networks? Provide an explanatory example.