National Institute of Technology Hamirpur
Himachal Pradesh-177 005, India
End Semester Examination – December 2022
Department of Computer Science and Engineering

Degree Program: B.Tech
Course Title: Next Generation Networks
Date of Examination: 08-12-2022,
Teacher's name: Dr. D. P. Mahato
Course Code: CS-452

Class: 4th Year
Semester: 7th
Session: B
Time duration: 3 hours (02.30 PM to 05.30 PM)
Total Marks: 50

General Instructions:

1. **All the questions are compulsory.**

Q.1) What will be the challenges faced by next generation Network.   10 marks

Q.2) Suppose, we are in 2050, what will be advancements in our living standards if we think about smart world using smart devices as well as smart techniques in network and explain the advantages and disadvantages.

15 marks

Q.3) (a) What will survive - Mobile Telephones or Fixed Telephones ?

(b) What will be the problems if we switch to NGNs ?

5 + 5 marks

Q.4) (a) Explain simplified IOT architecture.

(b) What does IOT and digitization mean, elaborate on this concept.

(c) Explain Cloud Computing, Edge Computing, and Fog Computing with their roles and effects on today's life on us.

5+5+5 marks