

P P SAVANI UNIVERSITY
P P SAVANI SCHOOL OF SCIENCES
1stSemester of B.Sc. (IT)/BCA Examination (1stInternal Exam)
Subject: Introduction of Computer Organization (SSCA1020)
Branch: B.Sc. (IT)/BCA

[Date: 23/09/2022, Friday]

[Time: 12:00 A.M. to 01:00 P.M.]

[Total Marks: 30]

Instructions:

- Figures to the right indicate full marks.
- Use of scientific calculator is allowed.
- Draw neat and clean drawings & assume suitable data if necessary.

- Q-1** Explain Number system in details with its example **(04)**
- Q-2** Convert it Decimal to given form **(12)**
- a) $(9887253)_{10} = ()_2, ()_8, ()_{10}$
- b) $(789648.1992)_{10} = ()_2, ()_8, ()_{10}$
- Q-3** Convert number equivalent binary **(04)**
- a) $(D572E3F.4E3B1F)_{16} = ()_2$
- b) $(435642.65435)_8 = ()_2$
- Q-4** Convert the given form into 1's & 2's Compliment **(02)**
- a) 1111001
- b) 01011100
- Q-5** Find 1's and 2's complement of binary (-10101110) and representation sin. Magnitude **(04)**
- Q-6** Do subtraction of given formula $(1100)_2 - (1010)_2$. And representation sin. Magnitude **(04)**
