

Sessional Test-1
UMA005 (Introductory Math)

Branch: Biotech/BioMed **Date:** 16.09.2019 **Time:** 15min **M.M.:** 8

There will be no negative marking. Each question is of one mark.

- Q1. The number of ways of arranging 7 dissimilar things if two particular things are always to be together.
a) 960 b) 480 c) 240 d) 1440
- Q2. How many 5 letter permutations can be made from the letter of the word "ORGANIC".
a) 2520 b) 1840 c) 1260 d) 3480
- Q3. In how many ways can 3 prizes be distributed among 4 boys when no boy gets more than 1 prize?
a) 48 b) 36 c) 24 d) 18
- Q4. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?
a) 25201 b) 12600 c) 25200 d) 24020
- Q5. The argument of the complex number '-1+i' is:
a) 135 b) -45 c) 45 d) -135
- Q6. Find the value of
a) 1 b) -1 c) I d) -i
- Q7. Write the given complex number in polar form

- Q8. Solve quadratic equation $4x^2 - 25i^2 = 0$.
a) $5/2$ b) $2/5$ c) $5/2$ d) $2/5$