



EWHA WOMANS UNIVERSITY

UPON THE RECOMMENDATION OF THE FACULTY OF THE GRADUATE SCHOOL
HAS CONFERRED UPON

KARMALKAR, DEEPIKA GAJANAN

THE DEGREE OF

DOCTOR OF PHILOSOPHY

IN CHEMISTRY & NANOSCIENCE

WITH ALL THE RIGHTS, PRIVILEGES, HONORS AND RESPONSIBILITIES THERETO PERTAINING
GIVEN AT EWHA WOMANS UNIVERSITY, SEOUL, REPUBLIC OF KOREA
ON THE TWENTY-SEVENTH DAY OF AUGUST IN THE YEAR TWO THOUSAND AND TWENTY-ONE



A handwritten signature in black ink, appearing to read 'Gyeonjung Han'.

DEAN OF THE GRADUATE SCHOOL

A handwritten signature in black ink, appearing to read 'Eunhee Kim'.

PRESIDENT OF THE UNIVERSITY