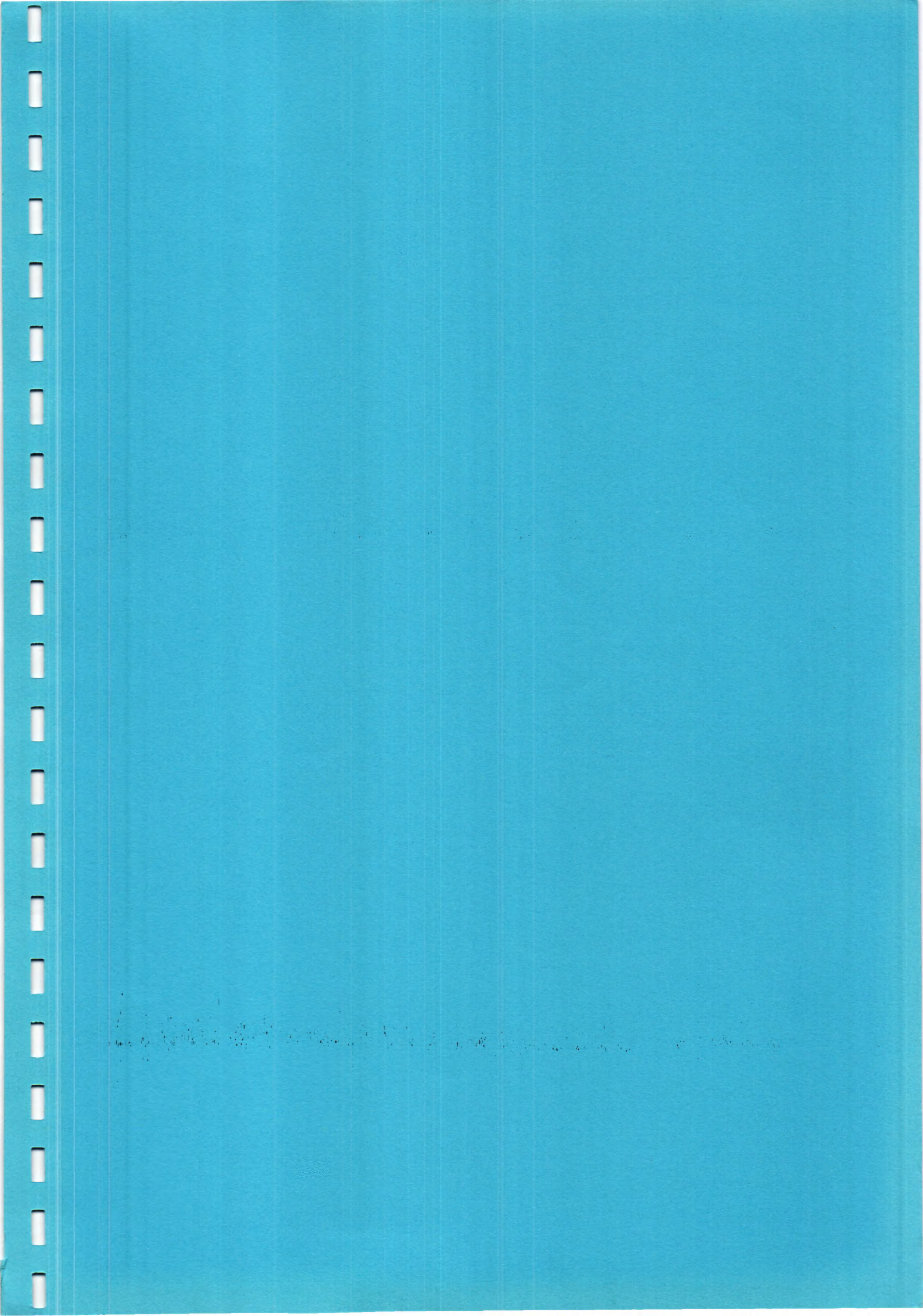


KATHMANDU UNIVERSITY
End Semester Examination [C]
June 2018

Marks scored:

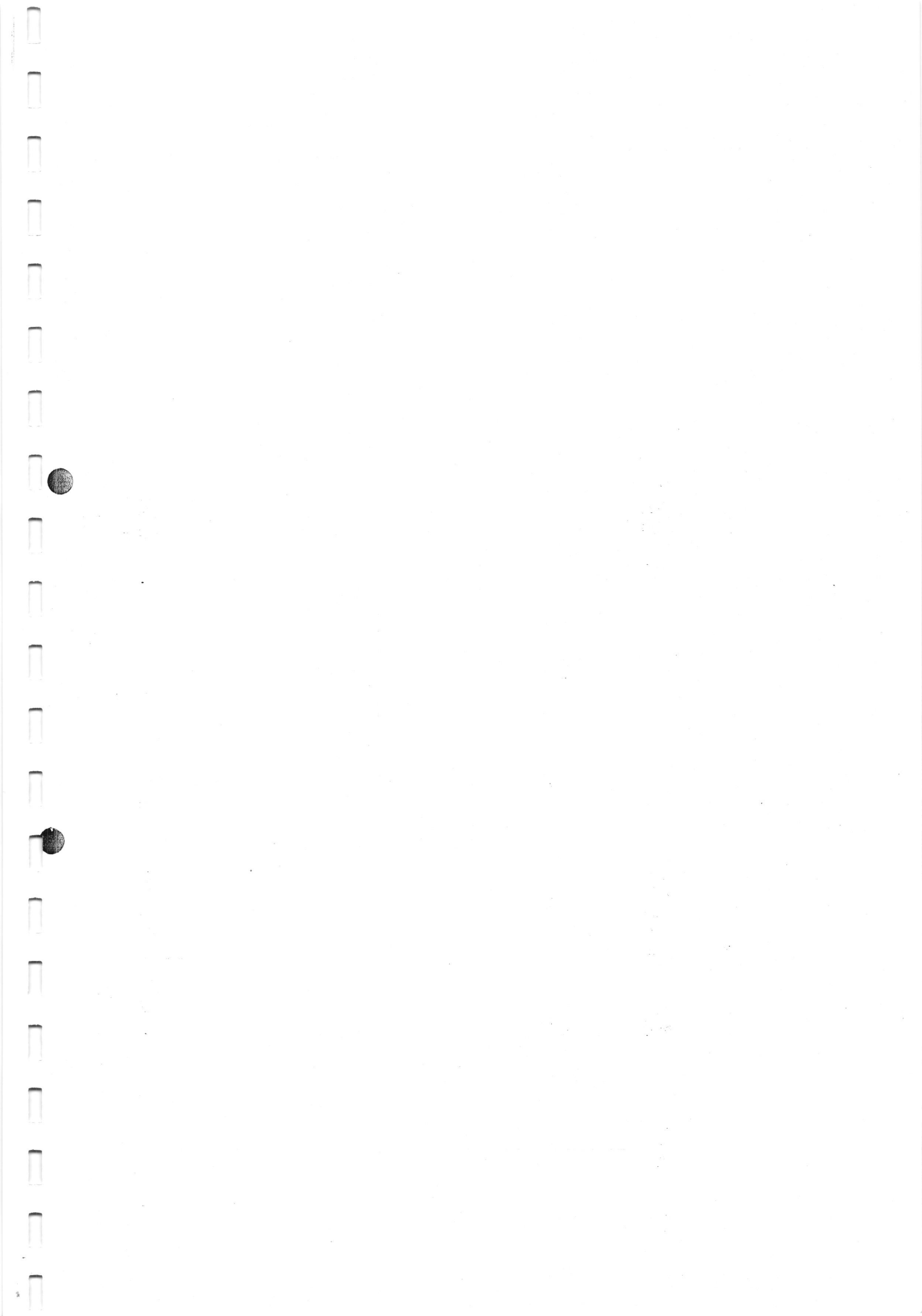
Level : B.E.
Year : II

Course : MEEG 219
Semester : I



JUN 19 2018

18. The point of contact of two pitch circles of mating gears is called
 Pressure point Pitch point Module Contact point
19. Thickness of tooth measured along the pitch circle is known as
 Tooth thickness Backlash Face width Top land
20. Which formula is used to calculate diametral pitch?
 (number of teeth) x (pitch circle diameter)
 (pitch circle diameter) / (number of teeth)
 (number of teeth) / (pitch circle diameter)
 none of the above



KATHMANDU UNIVERSITY
End Semester Examination [C]
June 2018

JUN 19 2018

Level : B.E.
Year : II
Time : 2 hrs. 30 mins.

Course : MEEG 219
Semester: I
F.M. : 55

SECTION "B"

Attempt all the questions.

1. Explain briefly the term 'absolute error'. [2]
2. Explain the difference between [2]
 - i. Measurand and Measurement
 - ii. Input and Output
3. State the advantages of electrical/electronic techniques of measurement. [2]
4. What are the system of specifying tolerance; which one is used most and why? [3]
5. Explain terminology of limits and fits with sketch. [4]
6. Name the different types of calipers and draw their neat sketches. [4]
7. Draw a neat sketch of a vernier depth gauge and explain its construction and working. [6]
8. Explain with the help of a diagram the principle of a sine bar. [4]
9. Write short note on: [2]
 - a. V- Block
 - b. Angle Plate
10. Give any four symbols for direction of lay. [2]
11. Define screw thread. How are threads classified? [1+3]
12. Explain briefly the methods of measuring thread angle of a screw thread. [4]
13. Enumerate the advantages and disadvantages of involute gears. [4]
14. Describe the 'Base tangent method' used for measuring gear tooth thickness. [6]
15. Explain the working principle of optical profile projector with neat sketch. [6]

