JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B. Tech. - IV Semester (CSE/IT)

COURSE CODE (CREDITS): **18B11CI515** MAX. MARKS: **15**

COURSE NAME: **Computer Graphics**

COURSE INSTRUCTOR: Ajeet Kumar Verma MAX. TIME: **1 Hour**

Note: *(a) All questions are compulsory.*

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculators is not allowed

Q.No	Question	CO	Marks
Q1	Explain the difference between Active and Passive graphics devices. Identify whether a light pen is an active or passive device and justify your answer.	1	3.5
Q2	Describe the working principle of a Raster-Scan Display System with a neat block explanation. Why are raster-scan displays preferred for filled images over random-scan displays?	1	3.5
Q3	Explain the Mid-point Line Drawing Algorithm. Determine the decision parameter (p_0) for a line drawn from (2, 3) to (8, 6).	2	4
Q4	Explain the Cohen–Sutherland Line Clipping Algorithm. How many region codes are possible in Cohen–Sutherland clipping? State the reason.	2	4

JUIT TEST-1 EXAMINATION FEB-2026

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