Babu Banarasi Das University
School of Engineering

Even Sem. 2025-26

Continuous Internal Assessment-II

Name of Program: B. Tech (CSE)-AI **Year:** Third Year **Semester:** Six

Name of Course: Computer Vision **Course Code: NPEC43922**

(To be filled by the student) **Total Time:** 01 Hour

Univ. Roll No.										
Name										
Section										
Date	D	D	/	M	M	/	Y	Y	Y	Y
Sign of Student										
Sign of Invigilator										

Max Marks:	30
Marks Obtained:	
Name & Sign of Evaluator	

Attempt all questions.

Section-A (Multiple Choice Questions) **(1×5=5 Marks)**

Q1. Which operator is second-order derivative? **(CO2)**
(a) Sobel (b) Prewitt (c)Laplacian (d)Roberts

Q2. What does Gaussian blur do**? (CO2)**
(a) Sharpens image (b)Smooths image (c)Detects edges (d)Segments image

Q3. Which filter is used to remove salt-and-pepper noise? **(CO2)**
(a) Gaussian filter (b) Median filter (c) Laplacian filter (d)Sobel filter

Q4. CNN is mainly used for: **(CO3)**
(a) Text processing (b) Image processing (c) Audio compression (d)Sorting

Q5. 25. Output in supervised learning is : **(CO3)**
a) Unknown (b) Known labels (c) Random (d) Noise

Answers: (Please write the correct option below.)

Q1 | **Q2** | **Q3** | **Q4** | **Q5**

Section B (Short Answer Questions)

Q6. What is image segmentation ? **(CO2)** **(5 Marks)**

Q7. What is object detection & Image classification? **(CO3)** **(5 Marks)**

Q8. Differentiate between Supervised & Unsupervised learning. (CO3) (5 Marks)

Section C (Long Answer Questions)

Q9. Explain different types of noise in digital images describe Mean filter, Median filter, Gaussian filter. (CO2) **(10 Marks)**

Course Outcome (CO) Mapping

CO Number	Question Numbers	Marks
CO2	(1),(2),(3),(6),(9)	18
CO3	(4),(5),(7),(8)	12