



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL



PRE-MID TERM 2026-27 ARTIFICIAL INTELLIGENCE (843) – Set 02

Class : XII A/B (SUBJECT-05)

Date :

Admission No.:

Duration : 1 Hr

Max. Marks : 25

Roll No.:

	<u>General Instructions:</u>	
	Try to attempt all questions as per given order.	
	All questions are compulsory.	
	The Question Paper is divided into three sections Section A to C.	
	- Section A has 10 questions and attempt any 7, carry 1 mark each. - Section B has 8 questions and attempt any 6, carry 2 marks each. - Section C has 2 questions and attempt any 2, carry 3 marks each.	
	Section-A	
1.	Which pre-processing technique enhances image contrast? a. Noise reduction b. Histogram equalization c. Feature extraction d. Image segmentation	1
2.	What does R-CNN stand for? a. Recurrent-Convolutional Neural Network b. Region-Based Convolutional Neural Network c. Regularized-Convolutional Neural Network d. Refined-Convolutional Neural Network	1
3.	Which colour model is commonly used in Computer Vision for coloured images? a. CMYK b. HSV c. RGB d. Greyscale	1
4.	What is the main goal of Computer Vision (CV)? a. To make computers understand spoken language b. To enable computers to see, observe, and understand the visual world c. To teach computers how to write poetry d. To improve internet speed	1
5.	Entrepreneurship-cum-skill development programmes are offered by - a. National Informatics Centre b. National Institute for Entrepreneurship and Small Business Development c. Ministry of Telecommunications d. Ministry of Commerce	1

6.	Which of the following utilises hyperplanes to separate objects into distinct classes? a. K-Nearest Neighbors b. Support Vector Machines c. Convolutional Neural Networks d. K-Means Clustering	1
7.	What does a computer "see" when it processes an image? a. The real-world object directly b. A collection of numbers representing pixel values c. A 3D representation of the object d. A set of verbal descriptions of the object	1
8.	Which is an ethical concern related to Computer Vision? a. High electricity consumption c. The inability to process real-time data b. Unauthorised data collection and misuse of PII d. The need for expensive hardware	1
9.	_____ means not to give up and keep going even when a challenging situation arises while running a business. a. Motivation b. Self-awareness c. Perseverance d. Determination	1
10.	An _____ acts as a means of assisting budding entrepreneurs in recognising and designing one-of-a-kind distinctive business possibilities. a. entrepreneurship development programme b. stress management programme c. business development programme d. mentor development programme	1
Section - B		
11.	What is Resolution?	2
12.	What is Noise Reduction?	2
13.	What is Image Normalization?	2
14.	How is noise reduced in Computer Vision?	2
15.	How do deep learning models extract features from raw image data?	2
16.	Who is entrepreneur?	2
17.	Mention any two functions of an entrepreneur.	2
18.	Why should an entrepreneur display 'Preseverance'?	2
Section - C		
21.	What is image segmentation and why is it important?	3
22.	Differentiate between first generation entrepreneur and entrepreneur from business family.	3
***** BEST OF LUCK *****		