



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 01

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.	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
2.	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
3.	Which colour model is commonly used in Computer Vision for coloured images? a. CMYK b. HSV c. RGB d. Greyscale	1
4.	What does high resolution mean in terms of digital images? a. More pixels per unit area, resulting in finer detail b. Fewer pixels but more brightness c. Faster image processing d. Images with more text labels	1
5.	Which pre-processing technique enhances image contrast? a. Noise reduction b. Histogram equalization c. Feature extraction d. Image segmentation	1
6.	How does feature extraction contribute to Computer Vision? a. It eliminates all irrelevant images from the dataset b. It identifies and isolates important visual patterns or details for recognition c. It converts all images to black and white d. It speeds up image acquisition	1

7.	Which real-world scenario best demonstrates image segmentation? a. Identifying different fruits in a grocery store image b. Translating text in a foreign language c. Predicting stock market trends d. Filtering spam emails	1
8.	Which of the following is NOT a quality of a successful entrepreneur? a. willingness to take risks b. ability to learn from mistakes c. motivated d. taking frequent holidays	1
9.	Many_____succeed by focusing on ideas that incorporate technology or deliver technology-driven solutions. a. Start-ups b. Entrepreneurs c. Mentors d. Businesses	1
10.	An entrepreneur's primary responsibility is to secure the timely availability of all the_____. a. money b. infrastructure c. resources d. supplies	1
Section - B		
11.	What is Computer Vision?	2
12.	What is Segmentation?	2
13.	What is Image Normalization?	2
14.	How does machine see and recognize object?	2
15.	How do deep learning models extract features from raw image data?	2
16.	What is meant by a business idea?	2
17.	Mention any two qualities of a successful entrepreneur.	2
18.	Why should an entrepreneur display 'Preseverance'?	2
Section - C		
21.	What is high level processing in computer vision? What are key aspects?	3
22.	Explain any three essential function that an entrepreneur must accomplish?	3
***** BEST OF LUCK *****		