

Exam ID: 106

Name:

Date:

Exam Instructions

1. The timer has been set for the exam, and a countdown will display the remaining time. When the timer runs out, the exam will end automatically. No further action will be required after that.

- 2. You can flag any question that you want.
- 3. If you don't want to submit any of your provided answers, you can clear them.
- 4. If you choose to drop this exam, it will not be submitted, and no result will be generated.
- 5. Once you finish the exam, you cannot resume it.

Secure Exam Advice

This exam is specially secured. Which means you cannot leave your browser window once the exam starts.

The following actions are not supported during your exam.

- Minimizing the browser
- Resizing the browser
- Open a new tab
- Open a new program
- Taking a screenshot
- Pressing Ctrl + C
- Pressing Ctrl + V
- Pressing Print Screen
- Pressing F12

We are monitoring your activity during the exam, and any unusual behaviour is being tracked. Your admin has set the exam to terminate if a certain number of unusual activities are detected, which could be as low as one. To avoid your exam from being terminated, please refrain from any behaviour that may be considered unusual. All the best!

 Question: 1 of 50
 QD: 284
 Marks 24

 Which of the following AI domains attempts to extract the information from spoken and written words using algorithms?
 Please mark (<) for the correct answer.</td>

 Please mark (<) for the correct answer.</td>
 B. neural network

 C. Natural Language Processing
 D. Computer Vision

Question: 2 of 50	QID: 256	Marks: 4
Ms. Akriti is intelligent in performing calculations	and logical reasoning. This ability refers to	
Please mark (\checkmark) for the correct answer.		
A. Existential Intelligence	B. Lingustic Intelligence	
C. Spatial Visual Intelligence	O D. Mathematical Intelligence	
Question: 3 of 50	QID: 281	Marks:4
Which of the following components is the core	of every AI system?	
Please mark (\checkmark) for the correct answer.		
🔵 A. Data	B. Information	
C. Testing	O D. Training	
Question: 4 of 50	QID: 285	Marks: 4
Systems for differently-abled individuals is an e	xample of	
Please mark (\checkmark) for the correct answer.		
○ A. Environment Perception	B. Face recognition	
C. Content-Based Image Retrieval	O D. Smart Interactions	
Question: 5 of 50	QID: 271	Marks:4
In which of the following field price comparison	websites are available?	
Please mark (\checkmark) for the correct answer.		
A. hospitality	B. automobiles	
C. technology	D. all of the above	
Question: 6 of 50	QID: 258	Marks: 4
Which of the following AI domain collects data,	maintain the datasets, and derives the meaning out of	it?
Please mark (\checkmark) for the correct answer.		
A. Neural Network	O B. Data Science	
C. Natural Language Processing	D. Computer Vision	

	of 50	QID: 274		Marks:
The input for	the Computer Vision project can be:			
Please mark (🗸	() for the correct answer.			
A. prog	ramming code files	○ В.	audio and mp3 files	
C. binar	y object files	○ D .	images and videos	
Question: 8	of 50	QID: 300		Marks:
The full form	of AAAI is:			
Please mark (🗸	() for the correct answer.			
🔿 A. Asiar	Association of Artificial Intelligence	◯ В.	Australian Association of Artificial Intelligenc	е
C. Amer	rican Association of Artificial Intelligence	<u> </u>	African Association of Artificial Intelligence	
Question: 9	of 50	QID: 262		Marks
Which of the	following tasks are very important in face I	lock systems	?	
Please mark (1	for the correct answer.			
	king images in the database	∩ B	creating a password	
C. initiat	ting the features of the face and matching unlocking	0	capturing photos and generating pattern	
Question: 1	0 of 50	QID: 255		Marks
		-	n either too tedious for humans or are time-	Marks
consuming.		-	n either too tedious for humans or are time-	Marks
consuming.	_ are made with the intent of accomplishing	g tasks which	either too tedious for humans or are time- Equipment	Marks
consuming. Please mark (√	_ are made with the intent of accomplishing () for the correct answer. gets	g tasks which		Marks
consuming. Please mark (✓ A. Gadg C. Tools	_ are made with the intent of accomplishing () for the correct answer. gets	g tasks which	Equipment	
consuming. Please mark (✓ A. Gadg C. Tools Question: 1	_ are made with the intent of accomplishing () for the correct answer. gets 5 1 of 50	g tasks which B. D. QID: 305	Equipment	Marks
consuming. Please mark (✓ A. Gadg C. Tools Question: 1 Which of the creativity	_ are made with the intent of accomplishing () for the correct answer. gets 5 1 of 50	g tasks which B. D. QID: 305	Equipment Machines	Marks
Please mark (A. Gadg C. Tools Question: 1 Which of the creativity	_ are made with the intent of accomplishing () for the correct answer. gets s 1 of 50 following are limitations of AI i) Training Tir () for the correct answer.	g tasks which B. D. QID: 305	Equipment Machines	Marks

Question: 12 of 50	QID: 313	Marks: 4
The output of R+G+B=0+255+0 is		
Please mark (\checkmark) for the correct answer.		
🔿 A. Black	O B. Green	
C. Blue	O D. Red	
Question: 13 of 50	QID: 279	Marks: 4
Which can be an input source for compute	er vision?	
Please mark (\checkmark) for the correct answer.		
🔵 A. keyboard	B. joystick	
C. infrared	O D. mouse	
Question: 14 of 50	QID: 306	Marks: 4
-		
Which of the following uses data science?	i) Email Spam Filter ii) Autocomplete iii) Facelock iv) \	/irtual Assistance
Which of the following uses data science?		Virtual Assistance
Which of the following uses data science?	i) Email Spam Filter ii) Autocomplete iii) Facelock iv) B. i, iii and iv D. i, ii and iii	Virtual Assistance
Which of the following uses data science? Please mark (✓) for the correct answer. A. i, ii and iv	B. i, iii and iv	Virtual Assistance
 Which of the following uses data science? Please mark (✓) for the correct answer. A. i, ii and iv C. ii, iii and iv 	 B. i, iii and iv D. i, ii and iii 	
Which of the following uses data science? Please mark (✓) for the correct answer. A. i, ii and iv C. ii, iii and iv Question: 15 of 50	 B. i, iii and iv D. i, ii and iii 	
Which of the following uses data science? Please mark (✓) for the correct answer. A. i, ii and iv C. ii, iii and iv Question: 15 of 50 refers to man-made does	 B. i, iii and iv D. i, ii and iii 	
Which of the following uses data science? Please mark (✓) for the correct answer. ▲. i, ii and iv C. ii, iii and iv Question: 15 of 50	B. i, iii and iv D. i, ii and iii QID: 272	
Which of the following uses data science? Please mark (✓) for the correct answer. ▲. i, ii and iv C. ii, iii and iv Question: 15 of 50	B. i, iii and iv D. i, ii and iii QID: 272 not occur naturally. B. Artificial	
Which of the following uses data science? Please mark (✓) for the correct answer. A. i, ii and iv C. ii, iii and iv Question: 15 of 50	 B. i, iii and iv D. i, ii and iii QID: 272 not occur naturally. B. Artificial D. Natural 	Marks: 4
Which of the following uses data science? Please mark (✓) for the correct answer. A. i, ii and iv C. ii, iii and iv Question: 15 of 50	 B. i, iii and iv D. i, ii and iii QID: 272 not occur naturally. B. Artificial D. Natural 	Marks: 4
Which of the following uses data science? Please mark (✓) for the correct answer. ▲. i, ii and iv C. ii, iii and iv Question: 15 of 50	 B. i, iii and iv D. i, ii and iii QID: 272 not occur naturally. B. Artificial D. Natural 	Marks: 4

Question: 17 of 50	[D: 30]	3		Marks:4
What was the main reason behind the funding of the AI re	searcl	h pr	ojects being reduced?	
Please mark (\checkmark) for the correct answer.				
○ A. People were not interested	\bigcirc	в.	lack of resources	
\bigcirc C. lack of awareness towards research	\bigcirc	D.	lack of computational facilities to train the d	lata
Question: 18 of 50	[D: 30]	7		Marks:4
Which of the following languages was introduced to write A	\I-rela	ted	programs?	
Please mark (\checkmark) for the correct answer.				
○ A. C++	\bigcirc	в.	LISP	
○ C. Python	\bigcirc	D.	PHP	
Question: 19 of 50	[D: 259	9		Marks:4
The intention of Machine Learning is				
Please mark (\checkmark) for the correct answer.				
○ A. recognize human's face	\bigcirc	в.	trained with huge amounts of data	
\bigcirc C. think through the algorithm and execute the task	0	D.	enable machines to learn by themselves usi provided data	ng the
Question: 20 of 50	[D: 289	9		Marks:4
The main function of smart assistants like Apple Siri and A	mazoı	n Ale	exa is	
Please mark (\checkmark) for the correct answer.				
\bigcirc A. Trying to recognize the voice	\bigcirc	в.	None of these	
C. Searching the word from the database	\bigcirc	D.	Trying to read from the dictionary	
Question: 21 of 50	[D: 26]	3		Marks: 4
refers to the ability to perceive or infer inform adaptive behaviors within an environment or context.	nation	, an	d to retain it as knowledge to be applied tow	ard
Please mark (\checkmark) for the correct answer.				
A. Behavior	\bigcirc	в.	Intelligence	
C. Habits	\bigcirc	D.	Nature	

Question: 22 of 50	QID: 286	Marks:4
Law enforcement agencies for identifying illegal/suspic	ious behavior is an example of	
Please mark (\checkmark) for the correct answer.		
A. Content-Based Image Retrieval	B. Environment Perception	
C. Smart Interactions	D. Face recognition	
Question: 23 of 50	QID: 314	Marks:4
In computer vision and image processing, a computational task related to a certain application.	is a piece of information that is relevant for	solving the
Please mark (✓) for the correct answer.		
A. source	B. features	
C. pixels	D. location	
Question: 24 of 50	QID: 278	Marks:4
When a machine possesses the ability to mimic huma improving on its own said to have	n traits like making decisions, predicting the futu	ire, learning, and
Please mark (\checkmark) for the correct answer.		
A. Knowledge Intelligence	B. Artificial Intelligence	
C. Informative Intelligence	D. Emotional Intelligence	
Question: 25 of 50	QID: 302	Marks: 4
Which of the following duration was marked as golder	years of AI research in the history of AI?	
Please mark (✓) for the correct answer.		
○ A. 1959-1974	B. 1974-1980	
○ C. 1960-1965	D. 1947-1974	
Question: 26 of 50	QID: 304	Marks:4
In which year the expert systems were introduced?		
Please mark (\checkmark) for the correct answer.		
A. 1986	B. 1982	

Question: 27 of 50	QID: 260		Marks:4
Speech recognition, Image recognition, and the a	bility to take action	are examples of	
Please mark (\checkmark) for the correct answer.			
A. to perceive, understand, and act	() В.	reasoning and planning	
C. learning and adaption	○ D .	none of these	
Question: 28 of 50	QID: 282		Marks: 4
How the spam messages are detected in email filt	ers?		
Please mark (\checkmark) for the correct answer.			
○ A. By sender's information	◯ В.	By copying the message directly	
C. By uncovering certain words	○ D .	By the content of the email	
Question: 29 of 50	QID: 266		Marks: 4
AI systems are made up of			
Please mark (\checkmark) for the correct answer.			
○ A. machines, hardware and software	○ В.	o only hardware	
C. o only machine	○ D .	only software	
Question: 30 of 50	QID: 309		Marks:4
The output of R+G+B=255+0+0 is			
Please mark (\checkmark) for the correct answer.			
🔵 A. White	○ В.	Gray	
C. Black	○ D .	Red	
Question: 31 of 50	QID: 288		Marks: 4
Search engines like Google and Bing use which of	f the following tech	nique with the help of computer vision/	
Please mark (\checkmark) for the correct answer.			
A. Environment Perception	○ В.	Face recognition	
○ C. Smart Interactions	○ D.	Content-Based Image Retrieval	

Question: 32 of 50	QID: 273	Marks: 4
includes our past experie	nce, intuition, knowledge, and self-awareness	
Please mark (\checkmark) for the correct answer.		
O A. nature	B. habits	
C. behaviour	D. information	
Question: 33 of 50	QID: 310	Marks: 4
The output of $R+G+B=0+0+255$ is		
Please mark (\checkmark) for the correct answer.		
A. Black	O B. Blue	
C. Green	D. Red	
Question: 34 of 50	QID: 311	Marks: 4
Features refer to specific structures such	as (i) points (ii) edges (iii) objects (iv) File path	
Features refer to specific structures such Please mark (✓) for the correct answer. A. (i) , (ii) & (iv) C. (i) & (iv)	as (i) points (ii) edges (iii) objects (iv) File path B. (i) , (ii) & (iii) D. (i) & (ii)	
Please mark (✓) for the correct answer.	B. (i) , (ii) & (iii)	Marks: 4
Please mark (✓) for the correct answer.	 ○ B. (i) , (ii) & (iii) ○ D. (i) & (ii) QID: 269 	Marks: 4
Please mark (✓) for the correct answer. A. (i) , (ii) & (iv) C. (i) & (iv) Question: 35 of 50	 ○ B. (i) , (ii) & (iii) ○ D. (i) & (ii) QID: 269 	Marks: 4
Please mark (✓) for the correct answer. ▲. (i) , (ii) & (iv) C. (i) & (iv) Question: 35 of 50 Which of the following most advanced for	 ○ B. (i) , (ii) & (iii) ○ D. (i) & (ii) QID: 269 	Marks: 4
Please mark (✓) for the correct answer. ▲. (i) , (ii) & (iv) C. (i) & (iv) Question: 35 of 50 Which of the following most advanced for Please mark (✓) for the correct answer.	 B. (i) , (ii) & (iii) D. (i) & (ii) QID: 269 	Marks: 4
Please mark (✓) for the correct answer. ▲. (i) , (ii) & (iv) C. (i) & (iv) Question: 35 of 50 Which of the following most advanced for Please mark (✓) for the correct answer. ▲. Data Science	 B. (i) , (ii) & (iii) D. (i) & (ii) QID: 269 Trm of AI? B. Machine Learning 	Marks: 4
Please mark (✓) for the correct answer. A. (i) , (ii) & (iv) C. (i) & (iv) Question: 35 of 50 Which of the following most advanced for Please mark (✓) for the correct answer. A. Data Science C. Deep Learning	 □ B. (i) , (ii) & (iii) □ D. (i) & (ii) QID: 269 rm of AI? □ B. Machine Learning □ D. Neural Network QID: 277 	
Please mark (✓) for the correct answer. △ A. (i) , (ii) & (iv) ○ C. (i) & (iv) Question: 35 of 50 Which of the following most advanced for Please mark (✓) for the correct answer. △ A. Data Science ○ C. Deep Learning	 □ B. (i) , (ii) & (iii) □ D. (i) & (ii) QID: 269 rm of AI? □ B. Machine Learning □ D. Neural Network QID: 277 	
Please mark (✓) for the correct answer. △ A. (i) , (ii) & (iv) ○ C. (i) & (iv) Question: 35 of 50 Which of the following most advanced for Please mark (✓) for the correct answer. ○ A. Data Science ○ C. Deep Learning Question: 36 of 50 The machine becomes intelligent once the	 □ B. (i) , (ii) & (iii) □ D. (i) & (ii) QID: 269 rm of AI? □ B. Machine Learning □ D. Neural Network QID: 277 	

Question: 37 of 50	QID: 312		Marks:4
are considered to be good feature	es in an image.		
Please mark (\checkmark) for the correct answer.			
A. corners	○ В.	flat area	
C. lines	○ D .	edges	
Question: 38 of 50	QID: 261		Marks:4
Which of the following is a price comparison we	bsite?		
Please mark (\checkmark) for the correct answer.			
🔵 A. Facebook	— В.	youtube	
C. google	○ D .	Shopzilla	
Question: 39 of 50	QID: 291		Marks: 4
The first AI winter starts in			
Please mark (\checkmark) for the correct answer.			
A. 1977	○ В.	1976	
○ C. 1978	○ D.	1974	
Question: 40 of 50	QID: 297		Marks:4
Assertion (A) : The funding of AI was halted i Reason(R) : Developing systems were costly.		er.	
Please mark (\checkmark) for the correct answer.			
\bigcirc A. A is correct but R is incorrect	— В.	Both A and R incorrect	
C. Both A and R are correct	○ D .	B is correct but R is incorrect	
Question: 41 of 50	QID: 301		Marks:4
Watson was developed by			
Please mark (\checkmark) for the correct answer.			
🔿 A. Apple	— В.	Google	
C. Amazon	○ D.	IBM	

Question: 42 of 50	QID: 265	Marks: 4
The ability to communicate with others by un	derstanding other people's feelings & influence on the	person is known as
Please mark (\checkmark) for the correct answer.		
A. kinaesthetic intelligence	B. existential intelligence	
C. naturalist intelligence	D. interpersonal intelligence	
Question: 43 of 50	QID: 295	Marks: 4
Arrange the AI evolution in proper order: i) n	eural network ii) machine learning iii) deep learning iv)	birth of AI
Please mark (\checkmark) for the correct answer.		
○ A. ii - iii - iv - i	○ B. iv – i – ii – iii	
○ C. i - ii - iii - iv	○ D. i - iii - iv - ii	
Question: 44 of 50	QID: 267	Marks: 4
The ability of religious and spiritual awarenes	s is related to which of the following intelligences?	
Please mark (\checkmark) for the correct answer.		
A. interpersonal intelligence	B. naturalist intelligence	
C. kinaesthetic intelligence	O D. existential intelligence	
Question: 45 of 50	QID: 268	Marks: 4
Which of the following processes is not involv	ved in Computer Vision image processing?	
Please mark (\checkmark) for the correct answer.		
A. acquiring images	B. deleting images	
C. extracting information	O D. screening images	
Question: 46 of 50	QID: 275	Marks: 4
In automatic cars, which of the following func	tions can be performed by the car itself?	
Please mark (\checkmark) for the correct answer.		
\bigcirc A. blowing the horn	\bigcirc B. predicting the distance from s	ource to destination

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Question: 47 of 50	QID: 264	Marks: 4
The Machine is said to be intelligent if,		
Please mark (✓) for the correct answer.		
○ A. it collects data	B. all of the above	
C. it understands data	D. it analyses data	
Question: 48 of 50	QID: 276	Marks: 4
Mr. Anurag is excellent at publishing articles on hi	blog. This ability refers to	
Please mark (✓) for the correct answer.		
A. Lingustic Intelligence	B. Mathematical In	telligence
C. Spatial Visual Intelligence	O D. Existential Intell	ligence
Question: 49 of 50	QID: 293	Marks: 4
Question: 49 of 50 Which of the following is AI-based vacuum cleane	-	Marks: 4
	-	Marks: 4
Which of the following is AI-based vacuum cleane	-	Marks: 4
Which of the following is AI-based vacuum cleaner Please mark (✓) for the correct answer.	?	Marks: 4
Which of the following is AI-based vacuum cleaner Please mark (✓) for the correct answer.	? B. Roomba	Marks: 4
Which of the following is AI-based vacuum cleaner Please mark (✓) for the correct answer. A. Siri C. Sophia	? B. Roomba D. Deep Blue QID: 280	Marks: 4
Which of the following is AI-based vacuum cleaner Please mark (✓) for the correct answer. A. Siri C. Sophia Question: 50 of 50	? B. Roomba D. Deep Blue QID: 280	Marks: 4
Which of the following is AI-based vacuum cleaner Please mark (✓) for the correct answer. A. Siri C. Sophia Question: 50 of 50 The advertisement of merchandise is an example	? B. Roomba D. Deep Blue QID: 280	Marks: 4

---- END OF QUESTION PAPER ----

National Level ScienceX Olympiads ScienceX AI Olympiad | Level 2

Answer Key

No	Question Type	QID	Correct Answer
Question - 1	Multiple Choice (Radiobutton)	284	С
Question - 2	Multiple Choice (Radiobutton)	256	D
Question - 3	Multiple Choice (Radiobutton)	281	A
Question - 4	Multiple Choice (Radiobutton)	285	D
Question - 5	Multiple Choice (Radiobutton)	271	D
Question - 6	Multiple Choice (Radiobutton)	258	В
Question - 7	Multiple Choice (Radiobutton)	274	D
Question - 8	Multiple Choice (Radiobutton)	300	С
Question - 9	Multiple Choice (Radiobutton)	262	С
Question - 10	Multiple Choice (Radiobutton)	255	D
Question - 11	Multiple Choice (Radiobutton)	305	В
Question - 12	Multiple Choice (Radiobutton)	313	В
Question - 13	Multiple Choice (Radiobutton)	279	С
Question - 14	Multiple Choice (Radiobutton)	306	A
Question - 15	Multiple Choice (Radiobutton)	272	В
Question - 16	Multiple Choice (Radiobutton)	294	В
Question - 17	Multiple Choice (Radiobutton)	303	D
Question - 18	Multiple Choice (Radiobutton)	307	В
Question - 19	Multiple Choice (Radiobutton)	259	D
Question - 20	Multiple Choice (Radiobutton)	289	A
Question - 21	Multiple Choice (Radiobutton)	263	В
Question - 22	Multiple Choice (Radiobutton)	286	В
Question - 23	Multiple Choice (Radiobutton)	314	В
Question - 24	Multiple Choice (Radiobutton)	278	В
Question - 25	Multiple Choice (Radiobutton)	302	A
Question - 26	Multiple Choice (Radiobutton)	304	D
Question - 27	Multiple Choice (Radiobutton)	260	A
Question - 28	Multiple Choice (Radiobutton)	282	С
Question - 29	Multiple Choice (Radiobutton)	266	A
Question - 30	Multiple Choice (Radiobutton)	309	D
Question - 31	Multiple Choice (Radiobutton)	288	D
Question - 32	Multiple Choice (Radiobutton)	273	D
Question - 33	Multiple Choice (Radiobutton)	310	В
Question - 34	Multiple Choice (Radiobutton)	311	В
Question - 35	Multiple Choice (Radiobutton)	269	С
Question - 36	Multiple Choice (Radiobutton)	277	A
Question - 37	Multiple Choice (Radiobutton)	312	А
Question - 38	Multiple Choice (Radiobutton)	261	D
Question - 39	Multiple Choice (Radiobutton)	291	D
Question - 40	Multiple Choice (Radiobutton)	297	С
Question - 41	Multiple Choice (Radiobutton)	301	D
Question - 42	Multiple Choice (Radiobutton)	265	D
Question - 43	Multiple Choice (Radiobutton)	295	В

No	Question Type	QID	Correct Answer
Question - 44	Multiple Choice (Radiobutton)	267	D
Question - 45	Multiple Choice (Radiobutton)	268	В
Question - 46	Multiple Choice (Radiobutton)	275	С
Question - 47	Multiple Choice (Radiobutton)	264	В
Question - 48	Multiple Choice (Radiobutton)	276	A
Question - 49	Multiple Choice (Radiobutton)	293	В
Question - 50	Multiple Choice (Radiobutton)	280	С

--- END OF ANSWER KEY ----