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COMPUTER SCIENCE TEST - UNIT 5: APPLICATIONS OF COMPUTER SCIENCE

Name:		Roll No.		Section:

Total Time: 2:30 Hour
Time Allowed: 150 Minutes

Total Marks: 150

PAPER OBJECTIVE
SECTION-A (MARKS 150)

NOTE: Section-A is compulsory. All parts of this section are to be answered on these pages and handed over to the center superintendent. Deleting / overwriting is not allowed. Do not use lead pencil.

Q.1 Fill the relevant bubble for each part. All parts carry one mark.

Questions	A	B	C	D	A B C D
1. AI stands for:	Automatic Internet	Advanced Interface	Applied Integration	Artificial Intelligence	○○○●
2. Artificial Intelligence is a branch of computer science that makes machines perform:	only printing	only storage	human-like tasks intelligently	only typing	○○●○
3. AI-based machines have:	no decision-making	only storage	decision-making capabilities	only keyboards	○○●○
4. AI technology can train computers to perform tasks by:	copying files only	using vacuum tubes	using punch cards	imitating human intelligence	○○○●
5. Which of these is an application of AI?	Recognising images and speech	Typing only	Printing only	Scanning only	●○○○
6. Machine learning is a field within:	artificial intelligence	networking	hardware engineering	web design	●○○○
7. Machine learning teaches computers to learn from:	only keyboards	only cables	only printers	data inputs and experience	○○○●
8. Machine learning learns without being:	connected	directly programmed	powered	trained	○●○○
9. Machine learning algorithms train on data inputs to produce:	viruses	cables	accurate output values	printouts	○○●○
10. In supervised learning, the training data is:	unlabelled	unseen	labelled	random	○○●○
11. Supervised learning uses known input data and:	known output responses	unknown outputs only	no data	only pictures	●○○○
12. Predicting car prices from labelled car data is:	unsupervised learning	clustering only	no learning	supervised learning	○○○●
13. Predicting whether a bank loan applicant can repay is an example of:	unsupervised learning	hardware design	data deletion	supervised learning	○○○●
14. In unsupervised learning, the training data is:	unlabelled	labelled	always numeric only	printed	●○○○

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Questions	A	B	C	D	A B C D
15. Unsupervised learning looks for:	labelled outputs only	printed results	hidden patterns in input data	errors only	○○●○
16. The learning technique used in unsupervised learning is known as:	labelling	compiling	clustering	booting	○○●○
17. Grouping similar data points together is called:	booting	compiling	printing	clustering	○○○●
18. Data that is "unlabelled" means it is:	assigned a category	printed	not assigned a category or group	encrypted	○○●○
19. A drawback of AI algorithms is lack of:	speed	transparency	memory	power	○●○○
20. When AI lacks transparency, it is difficult to know:	its colour	how the algorithm makes decisions	its name	its price	○●○○
21. Inaccuracy in AI algorithms can:	improve all decisions	always save time	lead to wrong decisions	remove all errors	○○●○
22. Which is a benefit of AI?	Always wrong decisions	No innovation	More errors	Better decision making	○○○●
23. AI helps in improving marketing and:	sales	errors	viruses	noise	●○○○
24. AI-based assistants include Siri and:	Excel	Alexa	Paint	Notepad	○●○○
25. AI helps provide better security against:	rainfall	earthquakes	cyberattacks	sunlight	○○●○
26. An AI tool is an intelligent:	hardware only	application software	cable	keyboard	○●○○
27. A major ethical issue in AI is protecting:	personal data and privacy	screen colour	fan speed	keyboard keys	●○○○
28. Training data for voice AI systems should be:	biased	secret	random	unbiased	○○○●
29. Developers should be honest about how AI tools:	work	look	sell	are named	●○○○
30. AI tools that create audio, video, music and images raise issues of:	screen size	copyright infringement	battery life	network cables	○●○○
31. Speech recognition is an AI technology that converts:	spoken words into written text	text into pictures	pictures into text	sound into video	●○○○

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Questions	A	B	C	D	A B C D
32. Dictating text into a computer instead of typing uses:	computer vision	speech recognition	expert systems	robotics	○●○○
33. A program that takes verbal commands to perform tasks is a:	compiler	scanner	database	virtual assistant	○○○●
34. Speech recognition is very helpful for people with:	good typing skills only	no disabilities	no phones	physical disabilities in typing	○○○●
35. A disadvantage of speech recognition is that:	different pronunciations make it hard to understand all words	it is too accurate	it does not use sound	it uses no AI	●○○○
36. Computer vision is a field of AI that enables computers to:	only print	only type	obtain information from images and videos	only store	○○●○
37. Computer vision can be used for:	baking only	painting only	traffic flow analysis	singing	○○●○
38. NLP stands for:	Network Level Protocol	New Logic Programming	Natural Language Processing	National Language Program	○○●○
39. NLP gives computers the ability to:	understand spoken and written words	only print	only calculate	only store	●○○○
40. The purpose of NLP is easy communication between:	two printers	two cables	computers and humans	two screens	○○●○
41. An application of NLP is:	image printing	disk formatting	language translation	cable testing	○○●○
42. Google Translate is an application of:	robotics	a database	NLP	a compiler	○○●○
43. Siri, Alexa and Google Assistant are applications of:	plotters	scanners	ROM	NLP	○○○●
44. An expert system is an AI-based program that solves:	only printing tasks	only typing tasks	complex problems with human-expert-like decisions	only storage tasks	○○●○
45. Expert systems use knowledge and:	colours	reasoning	cables	batteries	○●○○
46. An application of expert systems is:	printing	scanning	diagnosis in hospitals	typing	○○●○
47. Loan analysis and fraud detection in the finance industry use:	expert systems	word processors	plotters	keyboards	●○○○
48. AI in astronomy helps to analyse data from:	keyboards	telescopes and satellites	printers	speakers	○●○○

Questions	A	B	C	D	A B C D
49. AI is used in astronomy to predict motions of:	asteroids	buses	books	boats	●○○○
50. AI in cybersecurity helps to detect:	rainfall	colours	speed	malicious activities	○○○●
51. Robotics is concerned with computer-controlled machines that perform:	only typing	only printing	only storing	specific tasks with little or no human intervention	○○○●
52. A robot contains sensors, cameras, microphones and:	only a pen	control systems	only a book	only wood	○●○○
53. Robots are used in:	only farming	only singing	only painting	manufacturing industry	○○○●
54. Robots can work in:	no environments	only offices	extreme temperatures	only classrooms	○○●○
55. AI in healthcare helps in detecting:	colours of walls	diseases such as bacteria in blood samples	bus routes	prices	○●○○
56. AI-based patient monitoring in ICU measures heartbeat, blood pressure and:	colour	sound only	temperature	weight of the bed	○○●○
57. AI in education helps teachers in:	painting	cooking	grading assignments and essays	farming	○○●○
58. AI in education adapts to each student's:	colour	age only	height	individual learning needs	○○○●
59. AI helps university administrators to:	schedule courses and create timetables	print degrees only	paint walls	clean labs	●○○○
60. AI in gaming is used to develop games that:	have no players	give players a realistic challenge	have no graphics	have no rules	○●○○
61. AI in agriculture helps farmers to:	stop farming	produce high-quality crops and increase production	increase insects	reduce crops	○●○○
62. AI-based drones are used in agriculture for:	printing	typing	singing	spraying pesticide efficiently	○○○●
63. Computer vision and AI scanning images of insects help to:	print images	play games	detect pests attacking crops	paint fields	○○●○
64. AI in banking is used to:	slow transactions	hide accounts	detect fraud	delete accounts	○○●○
65. Self-driving cars use AI software connected with sensors, cameras and:	radars	keyboards	printers	scanners	●○○○

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Questions	A	B	C	D	A B C D
66. Which company is developing self-driving cars?	Photoshop	Excel	Canva	Tesla	○○○●
67. Which company is developing self-driving cars?	Oracle	Notepad	Volvo	MySQL	○○●○
68. AI in business is used in e-commerce, marketing and:	painting	farming only	sports only	business management	○○○●
69. In defense, AI is used to:	paint military vehicles	detect threats from hackers	make cars only	print files	○●○○
70. Computer simulated wars use AI to:	print documents	clean computers	train soldiers	store files	○○●○
71. A chatbot is a program that combines AI with:	only music	only video	only cables	natural language	○○○●
72. A chatbot provides instant answers to:	only printers	only scanners	website visitors' questions	only keyboards	○○●○
73. A chatbot mimics a:	machine fault	human conversation	virus	power cut	○●○○
74. Cloud computing delivers resources such as servers, software and storage over the:	electric cable only	Internet	printer	keyboard	○●○○
75. Resources in cloud computing are managed by the:	user's school only	cloud service provider	monitor	printer	○●○○
76. Cloud computing means using computing services:	remotely over the Internet	only locally on one PC	only on paper	only on a USB	●○○○
77. The three types of cloud computing are public, private and:	national	hybrid	local	virtual only	○●○○
78. In public cloud, resources are owned and operated by:	a single user	a cloud service provider	a school only	the government only	○●○○
79. Which cloud model is shared among many users over the Internet?	Public cloud	Private cloud	Hybrid cloud	Local cloud	●○○○
80. In private cloud, resources are used inside:	every organisation	a single organisation	the whole Internet	public places	○●○○
81. Which cloud is dedicated to a single organisation?	Public cloud	Private cloud	Hybrid cloud	Open cloud	○●○○
82. Which cloud is a combination of public and private cloud?	Public cloud	Private cloud	Social cloud	Hybrid cloud	○○○●

Questions	A	B	C	D	A B C D
83. Which cloud model offers more control and security for sensitive data?	Private cloud	Public cloud	Hybrid cloud	Open cloud	●○○○
84. Public cloud provides high-speed connectivity for rapid access to:	only printers	only monitors	only fans	applications and data	○○○●
85. A benefit of cloud computing is that you do not need to:	use the Internet	use any device	install and maintain servers in-house	pay anything ever	○○●○
86. Google Drive is an example of:	a compiler	cloud storage	an operating system	a printer	○●○○
87. Which of these is a cloud storage service?	Notepad	Paint	Calculator	Dropbox	○○○●
88. Which of these is a cloud storage service?	Paint	Notepad	Calculator	OneDrive	○○○●
89. A cloud storage allows files to be accessed from:	only one device	any device with Internet access	only one place	only offline	○●○○
90. Which is an advantage of cloud computing?	Access from anywhere	Needs no Internet	Works only offline	Slower access	●○○○
91. Which is a disadvantage of cloud computing?	Works offline always	Depends on Internet connection	No data storage	Needs no security	○●○○
92. Which of the following is an AI risk related to jobs?	AI creates no jobs	AI never changes jobs	Automation may replace some jobs	AI removes all computers	○○●○
93. Bias in AI can come from:	good data only	unfair or incomplete training data	no data	colour of screen	○●○○
94. An unbiased AI should:	favour a group	treat people fairly	ignore data	copy one person	○●○○
95. Who should take responsibility for ethical AI?	Nobody	Only machines	Only the Internet	Developers and users	○○○●
96. AI decisions in areas like loans or jail sentences must be:	fair and explainable	secret	random	always automatic	●○○○
97. When AI makes a wrong decision that harms a person, the main problem is:	too much speed	too much memory	too many colours	lack of accountability and transparency	○○○●
98. Collecting personal data for AI should be done with:	no consent	force	consent	theft	○○●○
99. A virtual personal assistant is a:	program that performs tasks for the user	hardware device only	type of network	database	●○○○

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Questions	A	B	C	D	A B C D
100. Which is an example of a virtual assistant?	MS Word	Visio	Google Assistant	Photoshop	○○●○
101. The AI technology that converts text into spoken voice is:	text-to-speech	speech-to-text	image recognition	data mining	●○○○
102. Lovo.ai is a tool that converts:	speech to text	text to image	image to text	text to speech	○○○●
103. An AI tool that detects faces in photos uses:	computer vision	speech recognition	expert systems	chatbots	●○○○
104. Recognising handwritten text is an application of:	spreadsheets	computer vision	networking	cabling	○●○○
105. An AI system that translates English to Urdu uses:	computer vision only	NLP	robotics	plotters	○●○○
106. An AI program that answers customer queries on a website is a:	virus	compiler	router	chatbot	○○○●
107. Traffic flow analysis uses AI with:	word processors	computer vision	printers	speakers	○●○○
108. Facial recognition for unlocking phones is an application of:	speech recognition	computer vision	NLP	expert systems	○●○○
109. Detecting cancer in medical images is an application of AI in:	healthcare	gaming	farming	banking	●○○○
110. Predicting weather using past data uses:	printing	machine learning	typing	compiling	○●○○
111. Spam filtering in email uses:	machine learning	manual sorting only	printing	scanning	●○○○
112. Recommending movies to a user uses:	hardware testing	compiling	machine learning	typing	○○●○
113. A self-driving car takes real-time actions based on information gathered from:	only maps	only drivers	only passengers	sensors, cameras and radars	○○○●
114. A machine with sensors that works with little human intervention is a:	keyboard	robot	printer	compiler	○●○○
115. Robotics combines mechanical, electrical and structural engineering, mathematics and:	painting	cooking	physics	poetry	○○●○
116. Which field is used for packaging medicine and transporting goods in warehouses?	Word processing	Databases	Typography	Robotics	○○○●

Questions	A	B	C	D	A B C D
117. Which AI application helps teachers grade essays?	AI in gaming	AI in defense	AI in education	AI in banking	○○●○
118. Which AI application detects fraud in banks?	AI in gaming	AI in education	AI in banking	AI in farming	○○●○
119. Which AI application provides realistic challenges for players?	AI in banking	AI in farming	AI in health	AI in gaming	○○○●
120. Which AI application uses drones for spraying crops?	AI in education	AI in agriculture	AI in banking	AI in gaming	○●○○
121. Which AI application helps ICU monitor patients?	AI in healthcare	AI in agriculture	AI in business	AI in gaming	●○○○
122. Which field of AI enables computers to understand human language?	Computer vision	NLP	Robotics	Expert systems	○●○○
123. Which field of AI deals with images and videos?	Computer vision	NLP	Speech recognition	Cloud computing	●○○○
124. Which field of AI converts speech into text?	Computer vision	Robotics	Speech recognition	Cloud computing	○○●○
125. Which field of AI imitates a human expert in a specific area?	Expert systems	Computer vision	NLP	Robotics	●○○○
126. Which AI application helps in e-commerce and marketing?	AI in agriculture	AI in astronomy	AI in business	AI in gaming	○○●○
127. Which AI application predicts the behaviour of stars?	AI in banking	AI in gaming	AI in education	AI in astronomy	○○○●
128. AI in defense improves:	surveillance	crop yield	school timetables	typing speed	●○○○
129. AI in cybersecurity prevents:	unauthorised access	rain	power cuts	screen glare	●○○○
130. Which statement about AI is correct?	It never needs data	It cannot make decisions	It has no applications	It can learn from data	○○○●
131. Which statement about machine learning is correct?	It never improves	It improves with more data	It needs no data	It stops learning always	○●○○
132. Which statement about unsupervised learning is correct?	It finds patterns in unlabelled data	It needs labelled data	It cannot cluster	It predicts exact labels only	●○○○
133. Which statement about supervised learning is correct?	It needs no data	It works on unlabelled data only	It cannot predict	It needs labelled training data	○○○●

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Questions	A	B	C	D	A B C D
134. Which statement about cloud computing is correct?	Resources never use Internet	Resources are delivered over the Internet	It only uses USB	It is only a printer	○●○○
135. Which statement about hybrid cloud is correct?	It is only public	It is only private	It is offline	It combines public and private cloud	○○○●
136. The ethical use of AI means using AI:	to harm people	without rules	in secret	for the benefit of people	○○○●
137. AI can create new content like:	only cables	only fans	only batteries	text and images	○○○●
138. Using AI to create harmful or false content is:	ethical	unethical	required	always legal	○●○○
139. Respecting copyright when using AI-generated content is:	an ethical responsibility	not needed	illegal	forbidden	●○○○
140. Which learning type groups customers with similar buying habits without labels?	Unsupervised learning	Supervised learning	Speech recognition	Cloud computing	●○○○
141. A model trained on emails labelled "spam" and "not spam" uses:	unsupervised learning	supervised learning	clustering	robotics	○●○○
142. Which field of AI helps a robot see its surroundings?	Computer vision	Speech recognition	Cloud storage	Expert systems	●○○○
143. Which AI application allows hands-free voice commands on a phone?	Speech recognition	Computer vision	Robotics	Clustering	●○○○
144. Which type of cloud would a bank choose for highly sensitive customer data?	Public cloud	Free cloud	Open cloud	Private cloud	○○○●
145. Which cloud type is the best for an organisation wanting both control and flexibility?	Only public cloud	Only private cloud	Hybrid cloud	No cloud	○○●○
146. AI that learns from experience and data is called:	manual programming	hardware design	machine learning	data entry	○○●○
147. An AI system that helps doctors detect disease from X-rays mainly uses:	computer vision	speech recognition	chatbots	plotters	●○○○
148. Which of the following is NOT an application of AI?	Manual typing on a typewriter	Self-driving cars	Chatbots	Language translation	●○○○
149. Predicting a house price from known past sales is:	supervised learning	unsupervised learning	clustering	speech recognition	●○○○
150. In AI, "training data" means data used to:	teach the model	print reports	clean the keyboard	connect cables	●○○○

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