O.S.D.A.V.Public School, Kaithal
July Exam, 2024-25
Subject: Artificial Intelligence
Class : IX   Set- B

Time:- _____ min.   **M.M.:- 30**

General Instructions:
1. Please read the instructions carefully.
2. This Question Paper consists of **10 questions** in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Attempt questions as per instructions given.**
5. All questions of a particular section must be attempted in the correct order.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	**Answer questions on Employability Skills (1 x 5= 5 marks)**	
i.	The following image is an example of _____ shirt. (a) informal (b) formal (c) Both of the above (d) None of the above	1
ii	Which of following isnot a self- management skill? a. Problem Solving b. Bar Gaining c.Understanding Self d. Confidence Building	1
iii.	Grooming is term associated with a. Time Management b. Problem Solving c.neat & clean appearance d. self- management	1
iv	Which of following is a quality of a self- confident person? a. Patient b. Compassionate c. Committed d. Passionate	1
v	You say "Good Afternoon" when it is_____. a)11 am b)9am c) 2 pm d) Both a and b	1
Q. 2	**Answer given 10 questions (1 x 10 = 10 marks)**	
i.	Unscramble the letters and find the correct answer: Who is first humanoid Robot who got citizenship of Saudi Arabia. a) SMEGSEA b) IMLHOMRGAT c) POISHA d) RROER	1
ii.	This field is enabling computers to identify and process images as human do: a. Face Recognition b. Model View Controller c.Computer Vision d. Eye-in- Hand System	1
iii.	_____+ Algorithm = AI Machine a. IOT b) NLP c)CV d)Data	1
iv.	Semantris game is based on the following domain: a) Data for AI b) Natural Language Processing c) Computer Vision d) Image processing	1
v.	 Identify domain of AI used in above picture	1

vi	IoT is abbreviated as a) Institute of Technology b) Internet of Things c) Index organized Table d) Inter-operability Test	1
vii	The Sustainable Development Goals (SDGs) were launched at the United Nations Sustainable Development Summit in New York in the year 2015, forming the 2030 Agenda for Sustainable Development. a)17 b)15 c)13 d) 19	1
viii	Who is known as the -Father of AI"? a)Fisher Ada b) Alan Turing c)John McCarthy d)Allen Newell	1
ix	Quick and draw game is based on the following domain: a) Data for AI b) Natural Language Processing c) Computer Vision d) Image processing.	1
x	After pandemic . it's been essential for everyone to wear a mask. However, you see many people not wearing masks when in public places. Which domain of AI can be used to build a system to detect people not wearing masks.	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer given questions on Employability Skills

Answer each question in 20 – 30 words.

Q. 3	Write down different types of verbal communication. Give an example of each type.	2
Q. 4	Write down different types of Self Management Skills?	2
Q. 5	What do you mean by close ended questions?	1

Answer given 5 questions in 20 – 30 words each (2 x 5= 10 marks)

Q. 6	Write applications of Artificial Intelligence in our daily life.	2
Q. 7	Explain NLP with example	2
Q. 8	What is difference between AI and Automation explain with example ?	2
Q. 9	Search for online AI game that recognizes the image drawn by you . Write down the observations including AI domain used by it.	2
Q 10	What do you mean by Sustainable Development Goal?	2

Time:-   1:10 hrs   **M.M.:- 30**

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SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer questions on Employability Skills (1 x 5= 5 marks)	
i.	The following image is an example of _____ shirt. (a) informal (b) formal (c) Both of the above (d) None of the above	1
ii	What can you do to get rid of negative thoughts or feelings? (a) Meditate to calm down and feel positive. (b) Ignore them and move on in life. (c) Act based on the negative thoughts or feelings (d) Talk to a friend and share all your negative feelings.'	1
iii.	A postal code is _____ (a) a group of numbers or letters used to identify a government building (b) a code used to indicate the door number of a house (c) a group of numbers or letters used by the post office to identify a region (d) a code used to identify different post offices.	1
iv	When you are preparing for a presentation , you should _____ a. Focus on the objectives of the presentation b. Practice your speech in front of mirror or friend c. Do rehearsal to time your presentation of slides d. All of Above	1
v	You say "Good Morning" when it is_____. a)11 am b)9am c) 2 pm d) Both a and b	1
Q. 2	Answer given 10 questions (1 x 10 = 10 marks)	
i.	The language is easy to learn and is one of the most popular languages for AI today: a.C++ b. Python c. Ruby d. Java	1
ii.	Which one of the following is an application of AI? a. Remote Controlled Drone b. Self Driving Car c.Self Srvice Kiosk d. Self Watering Plant System	1
iii.	Data + _____= AI Machine a. IOT b) NLP c)CV d)Algorithm	1
iv.	Rock , Paper and Scissor game is based on the following domain: a) Data for AI b) Natural Language Processing c) Computer Vision d) Image processing	1
v.	Identify domain of AI used in above picture:	1
vi	_____is the sub-field of AI that is focused on enabling computers to see and perceive human world as human being do. a) Deep Learning b) Machine Learning c) NLP d) Computer Vision	1
vii	Quick and draw game is based on the following domain: a) Data for AI b) Natural Language Processing c) Computer Vision d) Image processing.	1

viii	The government has decided to use Computer Vision technology to assess satellite imagery to study living and wealth conditions of people and to analyze individual random pictures of residents of that area to detect malnutrition. All this is being done for achieving an SDG . Which of the following SDG could it be? a) No Poverty c) Decent Work & Economic Growth b) Gender Equality d) Quality Education	1
ix	Reena is an intelligent girl who enjoys all her subject she has just started her class 11 and robotics and artificial intelligence seem to have. With help of teachers, online resources she is able to create small robot which open the door after recognizing the face of house met and friends . Initially the robot made quite a long mistake but after a year now it is performing very good now there are very less mistake. What type of technology do you think robot has used that its capability of recognizing faces correctly improve with time.? a)Natural Language Processing b) Automation c)Computer Vision d) Data	1
x	A leading multinational company operates on a chain of hypermarkets and grocery stores deployed an AI application to make it easier for employees to keep their stores running smoothly. They used thousands of video cameras, weighted sensors on shelves, and other technologies that can tell employees when certain products is starting to go bad. One of the task of the application is to identify bananas that had started to turn brown, eliminating the need for employees to manually inspect fruit. Which of the A.I domain is used to achieve this? A)Computer Vision b) Natural Language Processing c)Data for AI d)None of these	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer given questions on Employability Skills   Answer each question in 20 – 30 words.

Q. 3	What are factors that affect communication?	2
Q. 4	What do you mean by Self Management Skills?	2
Q. 5	What are different types of Communication?	1

Answer given 5 questions in 20 – 30 words each (2 x 5= 10 marks)

Q. 6	How AI be used as a tool to transform the world into better place	2
Q. 7	Draw out the difference between the three domains of AI with respect to types of data they use.	2
Q. 8	What is difference between AI and Automation?	2
Q. 9	Who is father of AI ? Write full form of NLP.	2
Q 10	Write names of any 4 Sustainable Development Goal.	2

O.S.D.A.V.Public School, Kaithal

July Exam ,2024-25

IX-Drawing   **Set- B**

Time:- 1:10 hrs   M.M.:- 30

I.   **Do any three questions.**

II.   **Each question carries 10 marks.**

Q.No.	Questions	Marks
Q.1	Draw a beautiful Alpana design in any one shape like Circle, Square ,Rectangle and Triangle filled with colors.	10
Q.2	Compose ''3D Still Life''arrange the following objects. Object : Book ,Glass, Pencil & lamp .fill with color .	10
OR		
Q.3	Write School Name "OSDAV" in Block letters with shadow in 3x5 c.m fill Black marker / Gel pen.	

| Q.4 | **Draw anyone innovative geometrical pattern fill with sketch colour.** | 10 |

Time:- _____ **min.**   **M.M.:- 30**

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SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer questions on Employability Skills (1 x 5= 5 marks)	
i.	The following image is an example of _____ shirt. (a) informal (b) formal (c) Both of the above (d) None of the above **Ans-Informal**	**1**
ii	Which of following is not a self- management skill? a. Problem Solving b. Bar Gaining c.Understanding Self d. Confidence Building **Ans-Bargaining**	**1**
iii.	Grooming is term associated with a. Time Management b. Problem Solving c.neat & clean appearance d. self- management **Ans- c.neat & clean appearance**	**1**
iv	Which of following is a quality of a self- confident person? a. Patient b. Compassionate c. Committed d. Passionate **Ans-Committed**	**1**
v	You say "Good Afternoon" when it is_____. a)11 am b)9am c) 2 pm d) Both a and b **Ans-2pm**	**1**
Q. 2	Answer given 10 questions (1 x 10 = 10 marks)	
i.	Unscramble the letters and find the correct answer: Who is first humanoid Robot who got citizenship of Saudi Arabia. a) SMEGSEA b) IMLHOMRGAT c) POISHA d) RROER **ANS- c) POISHA**	**1**
ii.	This field is enabling computers to identify and process images as human do: a. Face Recognition b. Model View Controller c.Computer Vision d. Eye-in- Hand System **Ans- c.Computer Vision**	**1**
iii.	_____+ Algorithm = AI Machine a. IOT b) NLP c)CV d)Data **Ans-Data**	**1**
iv.	Semantris game is based on the following domain: a) Data for AI b) Natural Language Processing c) Computer Vision d) Image processing Ans- **b) Natural Language Processing**	**1**
v.	Identify domain of AI used in above picture **Ans-NLP**	**1**

vi	IoT is abbreviated as a) Institute of Technology b) Internet of Things c) Index organized Table d) Inter-operability Test **Ans-Internet of Things**	1
vii	The Sustainable Development Goals (SDGs) were launched at the United Nations Sustainable Development Summit in New York in the year 2015, forming the 2030 Agenda for Sustainable Development. a)17 b)15 c)13 d) 19 **Ans-(a)17**	1
viii	Who is known as the -Father of AI"? a)Fisher Ada b) Alan Turing c)John McCarthy d)Allen Newell **Ans c)John McCarthy**	1
ix	Quick and draw game is based on the following domain: a) Data for AI b) Natural Language Processing c) Computer Vision d) Image processing. **Ans- c) Computer Vision**	1
x	After pandemic . it's been essential for everyone to wear a mask. However, you see many people not wearing masks when in public places. Which domain of AI can be used to build a system to detect people not wearing masks. **Ans-Computer Vision**	1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer given questions on Employability Skills

Answer each question in 20 – 30 words.

Q. 3	Write down different types of verbal communication. Give an example of each type. **Ans- 1.Oral eg - face to face communication, classroom teaching, talking on phone** **2. Written- mail, chat, notice, message**	2
Q. 4	Write down different types of Self Management Skills? **Ans Problem Solving, self-confidence, grooming, personal hygiene, time management, group work, positive thinking**	2
Q. 5	What do you mean by close ended questions? **Ans-Questions that can be answered with a "yes" or a "no" are called close-ended question. That is because the answer options are limited or closed. For example, when we ask "Do you have a TV at home?", the answer could be either "Yes" or "No"**	1

Answer given 5 questions in 20 – 30 words each (2 x 5= 10 marks)

Q. 6	Write applications of Artificial Intelligence in our daily life. **Ans. We use AI to solve problems in our everyday lives – to find the fastest way between our home address and our workplace, to read web pages written in another language, to look up information we need and for a host of other purposes.** **Once we've switched on our devices, we instantly plug into AI functionality such as:** *** face ID and image recognition** *** emails** *** apps** *** social media** *** Google search** *** digital voice assistants like Apple's Siri and Amazon's Alexa**	2

	online banking	
Q. 7	Explain NLP with example **Ans- when a machine is able to understand and generate the natural language and machine is able to communicate using the natural language rather than syntax or keyword called natural language processing** **For example, Alexa, Siri, Google Assistant**	**2**
Q. 8	What is difference between AI and Automation explain with example ? | ARTIFICIAL INTELLIGENCE	AUTOMATION
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When a machine possesses the ability to mimic human traits, i.e., make decisions, predict the future, learn and improve on its own, it is said to have artificial intelligence. **OR** AI is a form of intelligence; a type of technology and a field of study. AI theory and development of computer systems (both machines and software) are able to perform tasks that normally require human intelligence..	1.Machine with fixed algorithm. 2. Change in the program change the structure of the program. 3. To make changes is time consuming and difficult.		**2**
Q. 9	Search for online AI game that recognizes the image drawn by you . Write down the observations including AI domain used by it. **Ans- game- quick and draw domain used - computer vision**	**2**
Q 10	What do you mean by Sustainable Development Goal? **Ans: Development that take place without compromising the need of future generation.**	**2**

Time:- ____ min.   M.M.:- 30

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SECTION A: OBJECTIVE TYPE QUESTIONS

Q. 1	Answer questions on Employability Skills (1 x 5= 5 marks)	
i.	The following image is an example of _____ shirt. (a) informal (b) formal (c) Both of the above (d) None of the above **Ans-(a)formal**	1
ii	What can you do to get rid of negative thoughts or feelings? (a) Meditate to calm down and feel positive. (b) Ignore them and move on in life. (c) Act based on the negative thoughts or feelings (d) Talk to a friend and share all your negative feelings.' **Ans-(a) Meditate to calm down and feel positive.**	1
iii.	A postal code is _____ (a) a group of numbers or letters used to identify a government building (b) a code used to indicate the door number of a house (c) a group of numbers or letters used by the post office to identify a region (d) a code used to identify different post offices. **Ans- (c) a group of numbers or letters used by the post office to identify a region**	1

iv	When you are preparing for a presentation , you should _____
	   a. Focus on the objectives of the presentation
	   b. Practice your speech in front of mirror or friend
	   c. Do rehearsal to time your presentation of slides
	   d. All of Above
	Ans- (d) All of Above
		1

v	You say "Good Morning" when it is_____. a)11 am b)9am c) 2 pm d) Both a and b **Ans-(d) Both a and b**	1
Q. 2	Answer given 10 questions (1 x 10 = 10 marks)	
i.	The language is easy to learn and is one of the most popular languages for AI today: a.C++ b. Python c. Ruby d. Java **Ans-b. Python**	1

ii.	Which one of the following is an application of AI?
	   a. Remote Controlled Drone b. Self Driving Car
	   c.Self Srvice Kiosk d. Self Watering Plant System
	Ans-b. Self Driving Car
		1

iii.	Data + _____= AI Machine a. IOT b) NLP c)CV d)Algorithm **Ans- d)Algorithm**	1
iv.	Rock , Paper and Scissor game is based on the following domain: a) Data for AI b) Natural Language Processing c) Computer Vision d) Image processing **Ans- a) Data for AI**	1
v.	 Identify domain of AI used in above picture: **Ans-NLP**	1

vi	_____is the sub-field of AI that is focused on enabling computers to see and perceive human world as human being do. a) Deep Learning b) Machine Learning c) NLP d) Computer Vision **Ans- d) Computer Vision**		**1**
vii	The government has decided to use Computer Vision technology to assess satellite imagery to study living and wealth conditions of people and to analyze individual random pictures of residents of that area to detect malnutrition. All this is being done for achieving an SDG . Which of the following SDG could it be? a) No Poverty c) Decent Work & Economic Growth b) Gender Equality d) Quality Education **Ans- a) No Poverty**		**1**
viii	Reena is an intelligent girl who enjoys all her subject she has just started her class 11 and robotics and artificial intelligence seem to have. With help of teachers, online resources she is able to create small robot which open the door after recognizing the face of house met and friends . Initially the robot made quite a long mistake but after a year now it is performing very good now there are very less mistake. What type of technology do you think robot has used that its capability of recognizing faces correctly improve with time.? a)Natural Language Processing b) Automation c)Computer Vision d) Data **Ans- c)Computer Vision**		**1**
ix	Quick and draw game is based on the following domain: a) Data for AI b) Natural Language Processing c) Computer Vision d) Image processing. **Ans- c)Computer Vision**		**1**
x	A leading multinational company operates on a chain of hypermarkets and grocery stores deployed an AI application to make it easier for employees to keep their stores running smoothly. They used thousands of video cameras, weighted sensors on shelves, and other technologies that can tell employees when certain products is starting to go bad. One of the task of the application is to identify bananas that had started to turn brown, eliminating the need for employees to manually inspect fruit. Which of the A.I domain is used to achieve this? A)Computer Vision b) Natural Language Processing c)Data for AI d)None of these **Ans-Computer Vision**		**1**

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer given questions on Employability Skills

Q. 3	What are factors that affect communication?	2
	<table><tr><th>Factor</th><th>How the factor can become a barrier</th></tr><tr><td>Language</td><td>In case of use of incorrect words, unfamiliar language and lack of detail, language can act as a barrier to communicate what one wishes to convey. For example, language can act as a barrier when an Indian who only knows Hindi and Chinese who has the knowledge of Mandarin only want to interact with each other.</td></tr><tr><td>Visual Perception</td><td>Visual perception is the brain's ability to make sense of what we see through our eyes. For example, completing partially drawn pictures with visual perception whereas they may be something else.</td></tr><tr><td>Past Experience</td><td>Letting our earlier experience stop us from understanding or communicating clearly. For example, "This shopkeeper cheated me last time. Let me be careful or "I scored low marks in my Maths exam, so I am scared to ask and answer questions in class."</td></tr><tr><td>Prejudice</td><td>Fixed ideas, such as thinking "No one in my class likes me" may stop a student from communicating openly in the class.</td></tr><tr><td>Feelings</td><td>Our feelings and emotions, such as lack of interest or not trusting the other person affect communication. For example "I am not feeling well, therefore, I don't want to talk."</td></tr><tr><td>Environment</td><td>Noise or disturbance in the surroundings may make communication difficult. Example, talking to a friend in a function where there is loud music being played by the orchestra.</td></tr><tr><td>Personal factors</td><td>Personal factors include your own feelings, habits and ways of thinking. For example, fear, and low confidence may make communication difficult.</td></tr><tr><td>Culture</td><td>Signs' which have a different meaning in different cultures, such as showing a thumb may mean 'good job' done for some people but may be insulting to others.</td></tr></table>	

Q. 4	What do you mean by Self Management Skills? **Ans-Self-management involves understanding yourself, understanding what your interests and abilities are, having a positive attitude and grooming yourself in order to develop self-confidence** **Self-management can also help in:** *** developing good habits** *** overcoming bad habits** *** reaching your goals** *** overcoming challenges and difficulties** **Being able to manage yourself helps you to avoid stress and provides opportunities to get involved in fun activities**	2
Q. 5	What are different types of Communication? **Ans-verbal, non verbal ,visual communication**	1

Answer given 5 questions in 20 – 30 words each (2 x 5= 10 marks)

Q. 6	How AI be used as a tool to transform the world into better place AI can be used to transform world into a better place as:- **Ans-(1) AI can be used to achieve Sustainable Development Goals.** **(2) AI can be used to solve real-world problems.** **(3) It can help in medical imaging and help to gain detailed understanding a patient's heath** **Conditions.** **(4) It can help in fraud and risk Detection.** **(5) Robots, powered by AI can help in different fields of life.**	2
Q. 7	Draw out the difference between the three domains of AI with respect to types of data they use **Ans. Computer Vision: This domain work as with data in form of videos and images.** **NLP : This domain works with data in form of textual and audio data.:** **Statistical Data: This domain works with data in form of numerical data**	2
Q. 8	What is difference between AI and Automation? 	**ARTIFICIAL INTELLIGENCE**	**AUTOMATION**	 |---|---| 	When a machine possesses the ability to mimic human traits, i.e., make decisions, predict the future, learn and improve on its own, it is said to have artificial intelligence. **OR** AI is a form of intelligence; a type of technology and a field of study. AI theory and development of computer systems (both machines and software) are able to perform tasks that normally require human intelligence..	1.Machine with fixed algorithm. 2. Change in the program change the structure of the program. 3. To make changes is time consuming and difficult.		2
Q. 9	Who is father of AI ? Write full form of NLP. **Ans- John McCarthy** **Natural language processing**	2
Q 10	Write names of any 4 Sustainable Development Goal. **Ans- no poverty Gender equality Quality education Life on land**	2