OSDAV Public School, Kaithal
July Unit Test ,2024
Class : X

SET- A

Subject : Artificial Intelligence

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

General Instructions:-
I.   **All questions are compulsory.**

Q. No.	Questions	Marks
1	Satya Narayan wants to add a facility in his website for his customers to provide them some automatic 24 x 7 response on some frequently asked queries. Also, he needs a cost-effective reliable technique. He can add the module of: a) Chatbot b) Alexa c) Siri d) Appoint a tele caller for 24 x 7	1

2	Niraj wants to use face recognition system to improve the security of his house. Which part of AI is going to apply first of all in Niraj's security system?
	    a) Computer Vision c) Natural Language Processing
	    b) Deep Learning d) Web Scraping
		1

3	Assertion(A) : Natural Language Processing, abbreviated as NLP, Reason(R) : NLP is a domain of AI. a) Both A and R are correct and R is the correct explanation of A b) Both A and R are correct but R is NOT the correct explanation of A c) A is correct but R is not correct d) A is not correct but R is correct.	1
4	Snapchat filters are one of the most basic and initial applications of a) CV b) Scikit learn c) NLP d) Decision Making	1
5	IoT is abbreviated as a) Institute of Technology b) Internet of Things c) Index organized Table d) Inter-operability Test	1
6	The word Communicare means __ in Latin. a) to deliver b) to share c) to present d) to sacrifice	
7	In the communication Process, Decoding takes place at the ____end. a) Server b) Sender c) Receiver d) Client	1
8	The written communication such as notices, circulars, reports, SMS, manuals etc. considered which of the following type of communication? a) Non Verbal b) Verbal c) Visual d) None of these	1
9	Which of the following statements are the correct functions of Operating system are: i) It also checks whether the device is functioning properly or not. ii) It is used to identify the product and manufacturer iii) It manages the structure of the files and directories on a computer system. iv) It keeps track of the amount of disk space used by a specific file. a) i, ii, iv only b) i and ii only c) i and iv only d) i, iii and iv only	1
10	Which of the following is a part of the AI Project Cycle? a) Program Exploration b) Modelling c)Testing d) Problem Solution	1
11	Which of the following trap small children into inappropriate relations? a) Online predators b) Worms c) Trojan Horse d) Anti-Virus	1
12	How can an antivirus protect your device? a) It can protect it from overheating. b) It can increase its performance. c) It can prevent data from getting corrupt. d) It can backup data.	1
13	Which of the following is a valid file extension for Notepad file? a) .jpg b) .doc c) .text (POST) starts d) . txt	1
14	Being ___ means that you can identify your strengths and weaknesses a) Self-Aware b) Self Motivated c) Self-Regulated d) None of the above	1
15	Which of the following time management steps helps us to analyse that we have used our time effectively? a) Organize b) Track c) Control d) Priorities	1

	Answer the following Questions:	
1	Arrange the stages of AI Project Cycle in correct order Modelling -> Evaluation -> Problem Scoping -> Data Acquisition -> Data Exploration	2
2	Name the Sustainable Development Goal no. 6 and 11.	2
3	Explain Trojan Horse and virus.	2
4	Write the Shortcut key for print and paste.	2
5	In SMART goals, what does 'M' stand for? Explain.	2
6	List the various ways you can use to protect your data.	2
7	What are the different types of feedback?	2
8	Write the Advantages of Non Verbal Communication.	1

OSDAV Public School, Kaithal
July Unit Test,2024
Class : X

SET- B

Subject : Artificial Intelligence

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

General Instructions:-

I.   **All questions are compulsory.**

Q. No.	Questions	Marks
1	Who is known as the -Father of AI"? a) Fisher Ada b) Alan Turing c)John McCarthy d)Allen Newell	1

2	AI includes:
	   i) Data Science ii) Natural Language Processing
	   iii)Visual Basic programming iv) Computer Vision
	a) i, ii and iii only b) i, ii and iv only c) ii, iii and iv only d) i, iii and iv only
		1

3	Assertion(A) : Computer Vision, abbreviated as CV, Reason(R) : CV is a domain of AI. a) Both A and R are correct and R is the correct explanation of A b) Both A and R are correct but R is NOT the correct explanation of A c) A is correct but R is not correct d) A is not correct but R is correct.	1
4	Email filters are one of the most basic and initial applications of a) CV b) Scikit learn c) NLP d) Decision Making	1

5	What is data in AI domain?
	     a. Data can be a piece of information or facts and statistics collected together for reference or analysis.
	     b. Data are events c. Data means only some text collection
	     d. Data refers to statistical analyzed report.
		1

6	Reena is intelligent girl who enjoy all her subjects. She has just started her class 11 and *Robotics* and *Artificial Intelligence* seem to have caught her eye. With the help of her teacher , online courses and resources, she is able to create small robot which opens the door after recognizing the face of housemates and friends. Initially robot made quite a lot of mistakes but after a year now it is performing very good. Now there are very less mistakes and bloopers. Which domain of A.I , do you think robot has used that its capability of recognizing faces correctly improved with time? a) Computer Vision b) Natural Language Processing c) Data for AI d) None of these	1
7	Which type of communication uses letter and words to express the language we speak? a)Visual b) Verbal c) Written d) Non Verbal	1
8	In the communication Process, Encoding takes place at the ____end. a)Server b) Sender c) Receiver d) Client	1
9	Which of the following is not part of the AI Project Cycle? a) Data Exploration b) Modelling c) Testing d) Problem Scoping	1
10	Which of the following statements are the correct functions of Operating system are: i) It also checks whether the device is functioning properly or not. ii) It is used to identify the product and manufacturer iii) It manages the structure of the files and directories on a computer system. iv) It keeps track of the amount of disk space used by a specific file. a) i, ii, iv only b) i and ii only c) i and iv only d) i, iii and iv only	1
11	What should you do to ensure secure online transactions? a) Lock your computer b) Give credit card or bank details only on safe websites c) Use anti-virus d) Do not use pirated software	1
12	BIOS stands for a) Basic Input/Output System c) Basic Input and Output Systematic b) Base Input/Output System d) None of the above	1

13	Which of the following is a valid file extension for Audio file? a) .jpg　　　　b) .mp3　　　　c) .text (POST) starts　　　　d) . txt	1
14	Staying with the current situation with new updated information and preparing yourself for new challenges is called ___. a) Responsibility　　b) Adaptability　　c) Time management　　d) Self-awareness	1
15	A set of dreams with a deadline to get them............... a) Goals　　　　b) Goal Setting　　　　c) Vision　　　　d) None of the above	1
	Answer the following Questions:	
1	Arrange the stages of 4W canvas: Where -> Who -> Why ->What	2
2	Name the Sustainable Development Goal no. 7 and 12.	2
3	Explain Virus and worms.	2
4	List the various ways you can use to protect your data.	2
5	Write the shortcut Key for Undo & Redo.	2
6	In SMART goals, what does 'S' stand for? Explain.	2
7	What are the Characteristics of Feedback?	2
8	Write the advantages of Verbal Communication.	1

OSDAV Public School, Kaithal
Unit Test (July,2024)
Class : X   **SET- B**

Subject : Artificial Intelligence

Time: **M.M. : 30**

General Instructions:-
   I.   All questions are compulsory.

Q. No.	Questions	Marks
1	Who is known as the -Father of AI"? a) Fisher Ada b) Alan Turing c)John McCarthy d)Allen Newell Ans. c)	1

2	AI includes:
	    i) Data Science ii) Natural Language Processing
	   iii)Visual Basic programming iv) Computer Vision
	 a) i, ii and iii only b) i, ii and iv only c) ii, iii and iv only d) i, iii and iv only
	 Ans. b)
		1

3	Assertion(A) : Computer Vision, abbreviated as CV, Reason(R) : CV is a domain of AI. a) Both A and R are correct and R is the correct explanation of A b) Both A and R are correct but R is NOT the correct explanation of A c) A is correct but R is not correct d) A is not correct but R is correct. Ans. b)	1
4	Email filters are one of the most basic and initial applications of a) CV b) Scikit learn c) NLP d) Decision Making Ans. c)	1

5	What is data in AI domain?
	    a. Data can be a piece of information or facts and statistics collected together for reference or analysis.
	    b. Data are events c. Data means only some text collection
	    d. Data refers to statistical analyzed report.
	 Ans. a)
		1

6	Reena is intelligent girl who enjoy all her subjects. She has just started her class 11 and *Robotics* and *Artificial Intelligence* seem to have caught her eye. With the help of her teacher , online courses and resources, she is able to create small robot which opens the door after recognizing the face of housemates and friends. Initially robot made quite a lot of mistakes but after a year now it is performing very good. Now there are very less mistakes and bloopers. Which domain of A.I , do you think robot has used that its capability of recognizing faces correctly improved with time? a) Computer Vision b) Natural Language Processing c) Data for AI d) None of these Ans. a)	1
7	Which type of communication uses letter and words to express the language we speak? a)Visual b) Verbal c) Written d) Non Verbal Ans. b)	1
8	In the communication Process, Encoding takes place at the ____end. a)Server b) Sender c) Receiver d) Client Ans. b)	1
9	Which of the following is not part of the AI Project Cycle? a) Data Exploration b) Modelling c) Testing d) Problem Scoping Ans. c)	1
10	Which of the following statements are the correct functions of Operating system are: i) It also checks whether the device is functioning properly or not. ii) It is used to identify the product and manufacturer iii) It manages the structure of the files and directories on a computer system.	1

5	iv) It keeps track of the amount of disk space used by a specific file. a) i, ii, iv only b) i and ii only c) i and iv only d) i, iii and iv only Ans. d)	
11	What should you do to ensure secure online transactions? a) Lock your computer b) Give credit card or bank details only on safe websites c) Use anti-virus d) Do not use pirated software Ans. b)	1
12	BIOS stands for a) Basic Input/Output System c) Basic Input and Output Systematic b) Base Input/Output System d) None of the above Ans. a)	1
13	Which of the following is a valid file extension for Audio file? a) .jpg b) .mp3 c) .text (POST) starts d) . txt Ans. b)	1
14	Staying with the current situation with new updated information and preparing yourself for new challenges is called ___. a) Responsibility b) Adaptability c) Time management d) Self-awareness Ans. b)	1
15	A set of dreams with a deadline to get them............... a) Goals b) Goal Setting c) Vision d) None of the above Ans. b)	1
	Answer the following Questions:	
1	Arrange the stages of 4W canvas: Where -> Who -> Why ->What Ans. who,what,where,why	2
2	Name the Sustainable Development Goal no. 7 and 12. Ans. Goal No. 7 Affordable and Clean Energy Goal no. 12 Responsible Consumption and Production	2
3	Explain Virus and worms. Ans. Virus: Viruses are computer programs that can damage the data and software programs or steal the information stored on a computer. Major types of viruses are Worms and Trojan Horse. • Worms: These are viruses that replicate Worm virus themselves and spread to all files once they attack a computer. This makes it very difficult to remove them.	2
4	List the various ways you can use to protect your data. (a) Use passwords to login to your computer: Use passwords that are difficult to guess. Passwords are difficult to hack if they are a mix of small (For example 'a b c d') and capital letters (For example, 'H J E R'), numbers (For example '8 7 6 5') and special characters (For example, '% ^ # \$'). This would prevent unauthorised people from using your computer. (b) Install Anti-virus and Firewall: Anti-viruses and Firewall monitor the data coming in and out of a computer and prevent and viruses from entering. Anti-viruses can also detect and clean viruses that may have entered a computer. (c) Encrypt Data: This is usually done by banks and companies in which important customer information is stored. They can encrypt their entire hard disk using encrypting feature in Windows (Bitlocker). This would force users to use a decryption password (or key) before starting the computer thus preventing unauthorised usage. (d) Secure sites: Give details of your credit card or bank account only on secure sites. See in the address bar of the browser. If the site address starts with https://and a lock symbol, then it is safe to give your credit card and bank details.	2
5	Write the shortcut Key for Undo & Redo. Ctrl+ Z, Ctrl+ y	2
6	In SMART goals, what does 'S' stand for? Explain. Specific: A specific and clear goal answers six questions. Who is involved in the goal? What do I want to do?	2

	Where do I start? When do I start and finish? Which means do I use? Why am I doing this? Not a specific goal: "I would learn to speak English." Specific goal: "I would learn to speak English fluently by joining coaching classes after my school everyday, and in six months I will take part in the inter-school debate competition."	
7	What are the Characteristics of Feedback? A good feedback is one that is: • Specific: Avoid general comments. Try to include examples to clarify your statement. Offering alternatives rather than just giving advice allows the receiver to decide what to do with your feedback. • Timely: Being prompt is the key, since feedback loses its impact if delayed for too long. • Polite: While it is important to share feedback, the recipient should not feel offended by the language of the feedback. • Offering continuing support: Feedback sharing should be a continuous process. After offering feedback, let recipients know you are available for support.	**2**
8	Write the advantages of Verbal Communication. It is an easy mode of communication in which you can exchange ideas by saying what you want and get a quick response. Verbal communication also enables you to keep changing your interaction as per the other person's response.	**1**

OSDAV Public School, Kaithal
Unit Test (July,2024)
Class : X
SET- A
Subject : Artificial Intelligence

Time: **M.M. : 30**

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I.   **All questions are compulsory.**

Q. No.	Questions	Marks
1	Satya Narayan wants to add a facility in his website for his customers to provide them some automatic 24 x 7 response on some frequently asked queries. Also, he needs a cost-effective reliable technique. He can add the module of: a) Chatbot b) Alexa c) Siri d) Appoint a tele caller for 24 x 7 Ans. a)	1

2	Niraj wants to use face recognition system to improve the security of his house. Which part of AI is going to apply first of all in Niraj's security system?
	  a) Computer Vision c) Natural Language Processing
	  b) Deep Learning d) Web Scraping
	Ans. a)
		1

3	Assertion(A) : Natural Language Processing, abbreviated as NLP, Reason(R) : NLP is a domain of AI. a) Both A and R are correct and R is the correct explanation of A b) Both A and R are correct but R is NOT the correct explanation of A c) A is correct but R is not correct d) A is not correct but R is correct. Ans. b)	1
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6	The word Communicare means __ in Latin. a) to deliver b) to share c) to present d) to sacrifice Ans. b)	
7	In the communication Process, Decoding takes place at the ____end. a) Server b) Sender c) Receiver d) Client Ans. c)	1
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9	Which of the following statements are the correct functions of Operating system are: i) It also checks whether the device is functioning properly or not. ii) It is used to identify the product and manufacturer iii) It manages the structure of the files and directories on a computer system. iv) It keeps track of the amount of disk space used by a specific file. a) i, ii, iv only b) i and ii only c) i and iv only d) i, iii and iv only Ans. d)	1
10	Which of the following is a part of the AI Project Cycle? a) Program Exploration b) Modelling c)Testing d) Problem Solution Ans. b)	1
11	Which of the following trap small children into inappropriate relations? a) Online predators b) Worms c) Trojan Horse d) Anti-Virus	1

	Ans. a)	
12	How can an antivirus protect your device? a) It can protect it from overheating. b) It can increase its performance. c) It can prevent data from getting corrupt. d) It can backup data. Ans. c)	1
13	Which of the following is a valid file extension for Notepad file? a) .jpg b) .doc c) .text (POST) starts d) . txt Ans. d)	1
14	Being ___ means that you can identify your strengths and weaknesses a) Self-Aware b) Self Motivated c) Self-Regulated d) None of the above Ans. a)	1
15	Which of the following time management steps helps us to analyse that we have used our time effectively? a) Organize b) Track c) Control d) Priorities Ans. b)	1
	Answer the following Questions:	
1	Arrange the stages of AI Project Cycle in correct order Modelling -> Evaluation -> Problem Scoping -> Data Acquisition -> Data Exploration Ans. Problem Scoping, Data Acquisition, Data Exploration, Modelling, Evaluation	2
2	Name the Sustainable Development Goal no. 6 and 11. Ans. Goal 6. Clean Water and Sanitation Goal 11. Sustainable Cities and Communities	2
3	Explain Trojan Horse and virus. Trojan Horse: A Trojan Horse disguises itself i.e., it appears to be a useful software program but once it reaches a computer it starts behaving like a virus and destroying data. Virus: Viruses are computer programs that can damage the data and software programs or steal the information stored on a computer. Major types of viruses are Worms and Trojan Horse.	2
4	Write the Shortcut key for print and paste. Ctrl+ P, Ctrl+V	2
5	In SMART goals, what does 'M' stand for? Explain. Measureable: A measureable goal answers the questions "How much?", "How many?" and "How do I know that I have achieved results?" 56 Employability Skills – Class X Not measurable goal: "I want to be rich." Measurable goal: "I want to have 5 times more money than what I have today in my hand at the end of this year."	2
6	List the various ways you can use to protect your data. 1. Use passwords to login to your computer: Use passwords that are difficult to guess. Passwords are difficult to hack if they are a mix of small (For example 'a b c d') and capital letters (For example, 'H J E R'), numbers (For example '8 7 6 5') and special characters (For example, '% ^ # $'). This would prevent unauthorised people from using your computer. (b) Install Anti-virus and Firewall: Anti-viruses and Firewall monitor the data coming in and out of a computer and prevent and viruses from entering. Anti-viruses can also detect and clean viruses that may have entered a computer. (c) Encrypt Data: This is usually done by banks and companies in which important customer information is stored. They can encrypt their entire hard disk using encrypting feature in Figure 3.34: Antivirus Figure 3.35: Data encryption 82 Employability Skills – Class X Windows (Bitlocker). This would force users to use a decryption password (or key) before starting the computer thus preventing unauthorised usage. (d) Secure sites: Give details of your credit card or bank account only on secure sites. See in the address bar of the browser. If the site address starts with https://and a lock symbol, then it is safe to give your credit card and bank details.	2
7	What are the different types of feedback?	2

Table 1.5: Types of Feedback

Type of Feedback	Examples	
Positive Feedback	• I noticed you finished the work perfectly. Great job! • I really appreciate you taking that call. Can you please also share the details?	POSITIVE FEEDBACK
Negative Feedback	• You keep forgetting to smile at the hotel guests when you talk to them. • You take really long to reply to e-mails! Are you always so busy?	NEGATIVE FEEDBACK
No Feedback	• It is also a feedback in itself which indicates disagreement of ideas.	NO FEEDBACK

| 8 | Write the Advantages of Non Verbal Communication.
Our message becomes more effective if we use the right gestures while communicating.
 • If we know about non-verbal communication, we can understand our audience's reaction and adjust our interaction accordingly.
 • Using the right gestures and postures is a sign of professionalism and etiquette.
 • If verbal messages are obstructed by noise or distance, etc., we can use our hand movements to exchange messages. For example, placing a finger on the lips indicates the need for silence while nodding the head is the same as saying 'yes'. | 1 |