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Summer Vacation Holiday Homework – 2024-25

Class X

Q a. Prepare a PowerPoint presentation on the topic “Theory of Multiple intelligence”. Use appropriate images & illustrations. Upload the presentation using the link provided.

Q b. Prepare a infographics on “Cyber Safety”. No Printout please, draw yourself and color it. Upload the image using the link provided.

Q c. Answer the following MCQs in the AI Notebook.

1. _____ are made with the intent of accomplishing tasks which either too tedious for humans or are time-consuming.

- a) Machines
- b) Gadgets
- c) Equipment
- d) Tools

2. _____ refers to man-made does not occur naturally.

- a) Intelligence
- b) Artificial
- c) Natural
- d) Native

3. _____ refers to the ability to perceive or infer information, and to retain it as knowledge to be applied toward adaptive behaviors within an environment or context.

- a) Behavior
- b) Nature
- c) Habits
- d) Intelligence

4. Ms. Rani is intelligent in performing calculations and logical reasoning. This ability refers to

- a) Linguistic Intelligence
- b) Spatial Visual Intelligence

- c) Mathematical Intelligence
 - d) Existential Intelligence
- 5. Mr. Anurag is excellent at publishing articles on his blog. This ability refers to**
- a. Linguistic Intelligence
 - b. Spatial Visual Intelligence
 - c. Mathematical Intelligence
 - d. Existential Intelligence
- 6. The ability of religious and spiritual awareness is related to which of the following intelligences?**
- a. naturalist intelligence
 - b. interpersonal intelligence
 - c. existential intelligence
 - d. kinaesthetic intelligence
- 7. The ability to communicate with others by understanding other people's feelings & influence on the person is known as**
- a. naturalist intelligence
 - b. interpersonal intelligence
 - c. existential intelligence
 - d. kinaesthetic intelligence
- 8. Speech recognition, Image recognition, and the ability to take action are examples of**
- a. to perceive, understand, and act
 - b. reasoning and planning
 - c. learning and adaption
 - d. none of these
- 9. _____ includes our past experience, intuition, knowledge, and self-awareness**
- a. habits
 - b. behaviour
 - c. information
 - d. nature

10. When a machine possesses the ability to mimic human traits like making decisions, predicting the future, learning, and improving on its own said to have

- a. Informative Intelligence
- b. Knowledge Intelligence
- c. Artificial Intelligence
- d. Emotional Intelligence

11. The Machine is said to be intelligent if,

- a. it collects data
- b. it understands data
- c. it analyses data
- d. all of the above

12. The machine becomes intelligent once they are

- a. trained
- b. started
- c. installed
- d. **turned off**

13. In AI-based machines which of the following term is important?

- a. doing
- b. training
- c. sorting
- d. analyzing

14. AI systems are made up of

- a. machines, hardware and software
- b. only software
- c. only hardware
- d. only machine

15. The core idea of developing AI is building machines and algorithms to

- a. functions like anything
- b. perform computation tasks and functions like a human brain
- c. perform only arithmetic tasks

- d. perform logical comparisons only

16. The intention of Machine Learning is

- a. recognize human's face
- b. think through the algorithm and execute the task
- c. enable machines to learn by themselves using the provided data
- d. trained with huge amounts of data

17. Which of the following most advanced form of AI?

- a) Neural Network
- b) Machine Learning
- c) Data Science
- d) Deep Learning

18. Which of the following AI domain collects data, maintain the datasets, and derives the meaning out of it?

- a) Data Science
- b) Computer Vision
- c) Natural Language Processing
- d) Neural Network

19. Which of the following is a price comparison website?

- a) Facebook
- b) google
- c) youtube
- d) Shopzilla

20. In which of the following field price comparison websites are available?

- a) technology
- b) hospitality
- c) automobiles
- d) all of the above

21. Which of the following processes is not involved in Computer Vision image processing?

- a) acquiring images
- b) deleting images

- c) screening images
- d) extracting information

22. The input for the Computer Vision project can be:

- a) audio and mp3 files
- b) binary object files
- c) images and videos
- d) programming code files

23. Which can be an input source for computer vision?

- a) keyboard
- b) mouse
- c) joystick
- d) infrared

24. In automatic cars, which of the following functions can be performed by the car itself?

- a) decision to run or stop
- b) blowing the horn
- c) changing gears
- d) predicting the distance from source to destination

25. Which of the following tasks are very important in face lock systems?

- a) capturing photos and generating pattern
- b) creating a password
- c) initiating the features of the face and matching while unlocking
- d) checking images in the database

26. Which of the following AI domains attempts to extract the information from spoken and written words using algorithms?

- a) neural network
- b) Computer Vision
- c) Data Science
- d) Natural Language Processing

27. How the spam messages are detected in email filters?

- a) By uncovering certain words

- b) By copying the message directly
- c) By sender's information
- d) By the content of the email

28. The main function of smart assistants like Apple Siri and Amazon Alexa is

- a) Trying to recognize the voice
- b) Trying to read from the dictionary
- c) Searching the word from the database
- d) None of these

29. Which of the following is not a part of the Natural Language Generation?

- a) Text Planing
- b) Text Analysing
- c) Sentence Planning
- d) Text realization

30. Establishing linkage with natural language is included in which of the following components of NLP?

- a) Natural Language Unit
- b) Natural Language Understanding
- c) Natural Language Segment
- d) Natural Language Portion

31. Which of the following components is the core of every AI system?

- a) Information
- b) Training
- c) Testing
- d) Data

32. The advertisement of merchandise is an example of which of the following domains of AI?

- a) data science
- b) computer vision
- c) natural language processing
- d) All of the above

33. Search engines like Google and Bing use which of the following technique with the help of computer vision/

- a) Face recognition
- b) Content-Based Image Retrieval
- c) Smart Interactions
- d) Environment Perception

34. Law enforcement agencies for identifying illegal/suspicious behavior is an example of

- a) Face recognition
- b) Content-Based Image Retrieval
- c) Smart Interactions
- d) Environment Perception

35. Systems for differently-abled individuals is an example of

- a) Face recognition
- b) Content-Based Image Retrieval
- c) Smart Interactions
- d) Environment Perception