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Pre-Board

Artificial Intelligence

M.M-50

Time- 120 mins

Class: - X

Section A

Note:- For objective type questions, write the complete Answer on your answer sheet, not just a,b,c,d.

- Q1. Visual communication among the people are dependent on _____. (1)
(a) Signs, symbols and pictures (b) Text messages (c) Posture (d) Body language
- Q2. Which of the following is the process in which the receiver interprets and understands the message? (1)
(a) Decoding (b) Encoding (c) Feedback (d) None of these
- Q3. _____ is not the quality of self-confident people. (1)
(a) Dependent (b) Hard Working (c) Positive Attitude (d) Commitment
- Q4. High expectations from self can leave with chronic anxiety and stress, thus leading to _____ stress. (1)
(a) Physical (b) Emotional (c) Mental (d) Financial
- Q5. Which ancient practice includes a series of postures and breathing exercises practiced to achieve control of body and mind ? (1)
(a) Meditation (b) Physical Exercise (c) Listening music (d) Yoga
- Q6. The Recycle Bin in Windows stores deleted files for how long? (1)
(a) Permanently deletes instantly (b) Stores temporarily until emptied
(c) Stores for 30 days only (d) None of the above
- Q7. What does an operating system do? (1)
(a) Manages hardware and software resources (b) Helps to create documents
(c) Provides antivirus protection (d) Manages internet speed
- Q8. Entrepreneurs take — (1)
(a) Uncalculated risk (b) Calculated risk (c) No risk (d) Random risk
- Q9. The money used to start a business is called — (1)
(a) Loan (b) Capital (c) Income (d) Profit
- Q10. Which of the following practices contributes to sustainable development? (1)
(a) Overuse of chemical fertilizers (b) Deforestation (c) Rainwater harvesting (d) Excessive industrialization
- Q11. What is the main purpose of learning Green Skills? (1)
(a) To increase fossil fuel usage (b) To support nature and grow the economy in a healthy way
(c) To produce more industrial waste (d) To reduce jobs in environment-friendly fields
- Q12. What does the term carbon footprint mainly refer to? (1)
(a) The carbon taken in by plants from the air (b) Turning carbon into usable fuels
(c) The total greenhouse gases people release through their activities (d) The oxygen that trees produce

- Q27. All people look forward to vacations for de-stressing and rejuvenation. State any other two ways by which people can manage stress Ways for stress management? (2)
- Q28. List any two hardware components used for input and output. (2)
- Q29. State any two challenges faced by entrepreneurs. (2)
- Q30. What roles does computer vision play in agricultural monitoring systems? (2)
- Q31. What do you mean by Bioethics? (2)
- Q32. Give two real-life examples of reinforcement learning. (2)
- Q33. Explain neural networks. Describe the three layers of neural networks. (2)
- Q34. Identify the type of model (classification, regression, clustering, association model) and justify the following case studies most likely based on? (3)
- Case Study 1: A bank wants to predict whether a loan applicant will "default" or "non-default" on their loan payments. They have a dataset containing information such as income, credit score, loan amount, and employment status.
- Case Study 2: A real estate agency wants to predict the selling price of houses based on various features such as size, location, number of bedrooms, and bathrooms. They have a dataset containing historical sales data.
- Case Study 3: A marketing company wants to segment its customer base into distinct groups based on purchasing behavior for targeted marketing campaigns. They have a dataset containing information such as purchase history, frequency of purchases, and amount spent.
- Case Study 4: A grocery store wants to identify associations between different products purchased by customers to understand which products are commonly bought together. They have a transaction dataset containing records of items purchased together during each transaction.
- Q35. What is the difference between stemming and lemmatization? (3)
- Q36. Mention some five applications of Natural Language Processing. (3)

End Of Paper
