



# B. K. BIRLA CENTRE FOR EDUCATION, PUNE

(SENIOR SECONDARY CO-ED DAY CUM RESIDENTIAL SCHOOL, AFFILIATED TO CBSE NEW DELHI)

PRE MID TERM (2024-25)

ARTIFICIAL INTELLIGENCE



Class : VI

Date : 02-08-2024

Duration : 1 hour

Max. Marks : 25

## MARKING SCHEME

### I. Multiple Choice Questions :

(6 X 1 = 6)

- (1) Due to which of these abilities has human beings emerged as the dominant species on earth ?  
(a) great strength (b) great speed (c) great size (d) **high intelligence**
- (2) Which of the following is not related to intelligence ?  
(a) It lets us to solve problems, understand concepts and act purposefully  
(b) It allows us to imagine and use our experience in life to solve problems  
(c) It allows us to be creative and create objects and concepts of beauty and originality  
(d) **It helps us to act violently and wage Wars**
- (3) Which of the following activities involves the use of AI Technology ?  
(a) sorting of emails into folders based on content  
(b) booting up the computer  
(c) adding up numbers using a calculator  
(d) changing coloured photographs into black and white
- (4) Which of the following is not true about AI ?  
(a) the use of AI allows business owners to earn more money  
(b) AI can replace humans in clerical and repetitive tasks  
(c) John McCarthy coined the term Artificial Intelligence  
(d) **Development of AI systems have started only in last 10 years**
- (5) Which of the following is not a sign of Intelligence ?  
(a) solve problems (b) creating a poem (c) writing an original story (d) **Taking bath**
- (6) Who is known as the father of AI ?  
(a) Alan Turing (b) **John McCarthy** (c) Alan Newell (d) Marvin Minsky

### II. State True/False :

(3 X 1 = 3)

- (1) TRUE  
(2) TRUE  
(3) TRUE

### III. Fill in the blanks :

(3 X 1 = 3)

- (1) Shakey  
(2) Honda  
(3) Cortana

### IV. Short Answer Type Questions :

(4 X 2 = 8)

- (1) Give any two examples of display of Intelligence in the animal world i.e. apart from humans.

Ans. :

- (i) Parrots can exactly mimic the words.  
(ii) Elephants are good at team work.  
(iii) Dolphins can identify themselves in the mirror.

**(2) Define :**

**Ans. :**

**Human Intelligence :** It is a mental quality, that consists of the abilities to learn from experience, adapt to new situations, understand and handle abstract concepts, and use knowledge to manipulate one's environment.

**Artificial Intelligence :** The ability to learn and understand, to solve problems and to make decisions.

**(3) Define AI Winter.**

**Ans. :** From the 1970s to the mid 1990s, computer scientists dealt with an acute shortage of funding for research on artificial Intelligence. These years were therefore known as AI winters.

**(4) Describe the following :**

**(a) Alexa :** Amazon created Amazon Alexa, in 2014, a home assistant that developed into smart speakers that function as personal assistants.

**(b) Apple's Siri :** Apple released SIRI, in 2011, a virtual assistant on Apple iOS operating system. Siri uses a natural language user interface to infer, observe, answer and recommend things to its human user.

**V. Long Answer Type Questions :**

**(2 X 2.5 = 5)**

**(1) Write and explain any three features of Intelligence.**

**Ans. :**

- (a)** Handling incomplete data
- (b)** Handling contradictory data
- (c)** Handling uncertain data
- (d)** Handling heuristics
- (e)** Ability to learn

**(2) Write a brief note on "Sophia" a humanoid robot.**

**Ans. :** In 2016, a humanoid robot named Sophia was created by Hanson Robotics. She is known as the first robot citizen. She has ability to see (image recognition), make facial expressions and communicate through AI.

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