



2023-24

HALF YEARLY EXAM

**NCERT BASED
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**FOR
CBSE BOARD
AND
STATE BOARDS**



Class - IX
Time - 2 Hours

Subject - Artificial Intelligence
Maximum Marks- 50

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **14 questions** in two sections: Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (3 + 11 =) 14 questions, a candidate has to answer (3 + 10 =) 13 questions in the allotted (maximum) time of 2 hours.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (26 MARKS):**
 - i. This section has 03 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
7. **SECTION B - SUBJECTIVE TYPE QUESTIONS (24 MARKS):**
 - i. This section has 11 questions.
 - ii. A candidate has to do 10 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

**SECTION A: OBJECTIVE TYPE QUESTIONS**

Q. 1	Answer any 6 out of the given 7 questions on Employability Skills (1 x 6 = 6 marks)	
i.	Faith in one's belief and judgement is known as _____ .	1
ii.	Which of the following is not a self - management skills? a. Being positive b. Being responsible c. Being stubborn	1
iii.	_____ is the ability to understand one's strengths and weaknesses better.	1
iv.	_____ refers to an attitude that helps you see positive side of things.	1

v.	The idea behind strength and weakness analysis is to ignore the areas that you are weak in. Write True or False.	1
vi.	It is possible to convert weaknesses into strengths by working on them. Write True or False.	1
vii.	Self-awareness is act of knowing oneself better. Write True or False.	1

Q. 2	Answer any 10 out of the given 11 questions on Employability Skills (1 x 10 = 10 marks)	
i.	A is the interface between a user and the World Wide Web. a. Website b. Web server c. Web portal d. Web browser	1
ii.	Antivirus software is an example of a. Device driver b. Utility software c. Application software	1
iii.	The only difference between a compiler, assembler, and interpreter is the speed of processing. Write True or False.	1
iv.	The _____ controls the flow of data from the input devices to memory and from memory to output devices.	1
v.	What is collection of 8 bits called as? a. KB b. Byte c. GB d. Bits	1
vi.	BIOS, or Basic Input/Output System, is a software stored in a small memory chip also known as _____ .	1
vii	Which of the following refers to junk, unwanted, unsolicited mail sent to a large group of people for the purpose of advertising their commercial, non-commercial or prohibited products? a. Inbox b. Spam c. Trash d. E-mail	1



viii.	Which of the following is not an Operating System? a. Windows b. Ubuntu c. Debian d. Oracle	1
ix.	Which of the following is/are disk management tool? a. Disk Cleaner b. Disk Defragmenter c. Both a and b d. None of these	1
x.	_____ is the default file management tool in Microsoft Windows.	1
xi.	In a typical email ID, the part after the @ symbol is called the a. User name b. Web name c. Domain name d. None of these	1

Q. 3	Answer any 10 out of the given 11 questions (1 x 10 = 10 marks)	
i.	Statement 1: Perceiving is more than seeing. Statement 2: Computers perceive the world using sensors. a. Statement 1 and statement 2 both are correct b. Statement 1 and statement 2 both are incorrect c. Statement 1 is correct and statement 2 is incorrect d. Statement 1 is incorrect and statement 2 is correct	1
ii.	_____ is an example of Applications of Natural Language Processing. a. Evaluation b. Automatic Summarization c. Deep Learning d. Problem Scoping	1
iii.	Who among the following is the pioneer of the AI research? a. Google b. Facebook c. US Department of Defence d. US Department of Justice	1



iv.	_____ is the sub-field of AI that is focused on enabling computers to understand and process human languages. a. Deep Learning b. Machine Learning c. NLP d. Data Sciences	1
v.	Which of the following is not an example of AI? a. Determining what will be the population of India 20 years from now, based on past data. b. Picking of the right tool by a robot from a toolbox based on image sent to it. c. Identifying a person's face despite having put on lot of deceiving make up. d. Automatically running Anti-virus software when the computer reboots, as scheduled.	1
vi.	A chess-playing computer called _____ defeated the world chess champion, Gary Kasparov.	1
vii.	Which of the following AI systems will theoretically surpass human capabilities? a. Broads AI Systems b. Human intelligence based AI system c. Supercomputing AI systems d. Artificial super/strong-intelligence system	1
viii.	An AI system must be designed to maximize the bias and minimize discrimination. Write True or False.	1
ix.	Which of the following options was originally called 'imitation game' by its creators? a. Perl b. The Logic test c. The Turing Test	1
x.	The credit of coining the term Artificial Intelligence, goes to the scientist_____. a. Allen Newell b. Cliff Shaw c. Herbert Simon d. John McCarthy	1
xi.	Price comparison websites falls under which category? a. NLP b. Computer Vision c. Data Science d. None of these	1



SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer the following questions on Employability Skills (2 x 5 = 10 marks)

Answer each question in 20 – 30 words.

Q. 4	What is SWOT? How is it useful?	2
Q. 5	List any four positive result of self – management.	2
Q. 6	What is an operating system? Discuss any two functions of operating system.	2
Q. 7	What are the components of a CPU? Explain them briefly.	2
Q. 8	Differentiate between primary and secondary memory.	2

Answer the following questions in 20 – 30 words each (2 x 3 = 6 marks)

Q. 9	Give three examples of how artificial intelligence can change the defence sector in coming future.	2
Q. 10	Which of the following are AI: i) Gmail uses a Smart Compose feature that can help you type emails faster as it offers suggestions for words and phrases as you type. ii) Websites make use of software that simulates human-like conversations with users via text messages on chat. iii) Soap dispensers use infrared sensors with which when hands are placed in the proximity of the sensor, dispense the designated amount of soap. iv) Face recognition technology that identifies and verifies a person using the person's facial features and automatically marks attendance. a. i), ii) and iv) b. i), ii) and iii) c. ii), iii) and iv) d. i), iii) and iv)	2
Q. 11	You have heard that the development in the field of artificial intelligence will always create ethical issues. Do you agree? Comment.	2



Answer any 2 out of the given 3 questions in 50- 80 words each (4 x 2 = 8 marks)

Q. 12	What are the roles of ICT in governance, education, business and industry?	4
Q. 13	Define artificial intelligence. Explain in detail the main domains of AI with examples for each respectively.	4
Q. 14	Do you agree that AI is always beneficial? List out the people who will be positively impacted and the people who will be negatively impacted by AI.	4



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