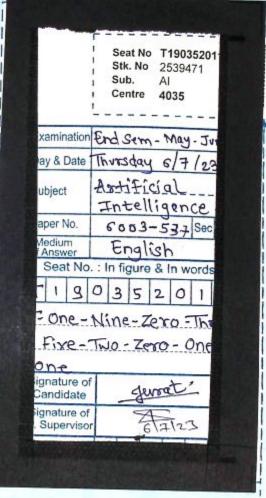


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Main Answer Book	No. of Suppleme	nts	Total
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Instruction to Candidate

 Candidate has to confirm seat number, subject and centre number printed on Bar code and write it on attendance sheet.
 विद्यार्थ्याने प्रथम बार कोडवरील आसन क्रमांक, विषय व केंद्र क्रमांक तपासून योग्य असल्याची खात्री करावी, आणि उपस्थित पत्रकावर नोंदवावी.

- Paste Bar Code in prescribed space. उत्तरपत्रिकेवरील विहित जागेतच बार कोड लावावा.
- Do not write anything on bar code sticker, otherwise it will be treated as unfairmeans. बार कोड स्टिकरवर काहीही लिहू नये, अन्यथा परीक्षा गैरप्रकार समजला जाईल.

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- विद्यार्थ्यांने उत्तरपत्रिकेच्या मुखपृष्ठावर तसेच पुरवणी उत्तरपत्रिकेवर आणि उपस्थिती पत्रकावर विहित जागेत आसन क्रमांक अंकात व अक्षरात बिनचूक लिहन स्वाक्षरी करावी.
- उत्तरपत्रिकेवर फक्त निळ्या अथवा काळ्या शाईचा उपयोग करावा, अन्यथा उत्तरपत्रिकेचे मृत्यमापन केले जाणार नाही.
- उत्तरपत्रिकेच्या पृष्ठक्रमांक ३ पासून लिहिण्यास प्रारंभ करावा.
- ४. संबंधित प्रश्नाचे अथवा उपप्रश्नाचे उत्तर जेथून सुरू होते तेथेच समासात प्रश्न क्रमांक, उपप्रश्न क्रमांक अचूक व स्पष्ट लिहावा, यासाठी वेगळ्या शाईचा उपयोग करु नथे.
- ५. प्रत्येक पानाच्या दोन्ही बाजूस लिहावे, उत्तरपत्रिका किंवा पुरवणी उत्तरपत्रिकेचे कोणतेही पान फाडू नये. फाडल्यास परीक्षा गैरप्रकार समज्न पुढील कार्यवाही करण्यात येईल.
- ६. पेपर संपण्यापूर्वी १० मिनिटे अगोदर इशारा घंटा होईल, त्यानंतर विद्यार्थ्याने उत्तरपत्रिका व पुरवणी उत्तरपत्रिकेवर होलोक्राफ्ट स्टिकर विहित जागेवरच लावावा.

Candidate shall fill all information about seat number, paper etc. in prescribed space and sign on the answer book and attendance sheet.

Candidate shall use blue or black ink only. Otherwise answer book will not be evaluated.

Candidate shall start writing answers from page no. 3 of the answer book.

Candidate shall mention question number, sub question number correctly at the beginning of the same and shall not use ink other than blue or black.

Candidate shall write on both sides of pages. Shall not tear off any page, it will be treated as unfair means.

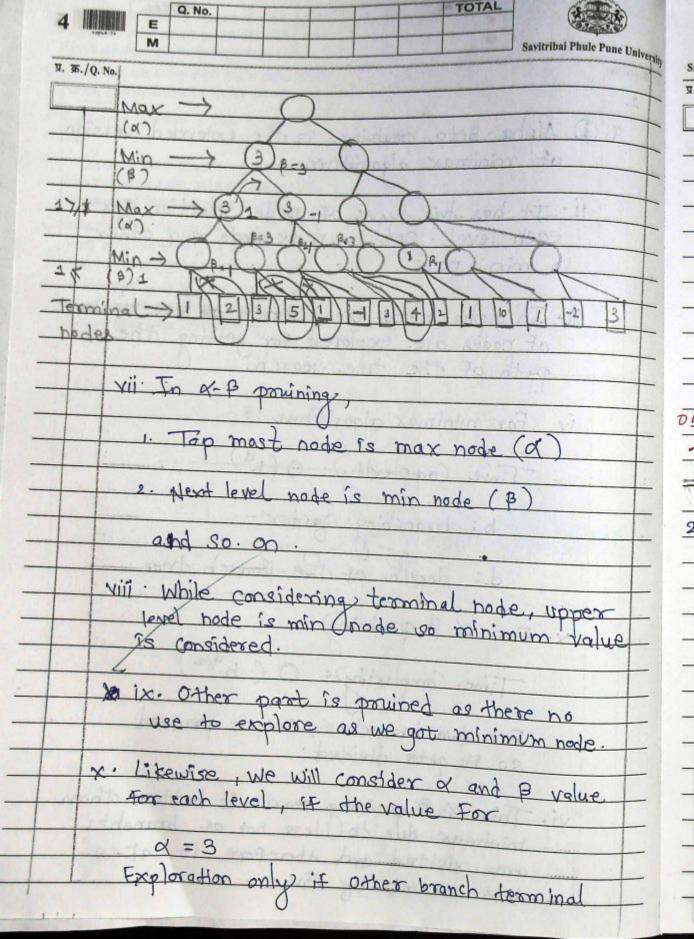
Warning bell will be given before 10 minutes of the concluding time. Candidate shall paste Hollocraft sticker at appropriate space on the answer book and supplements.

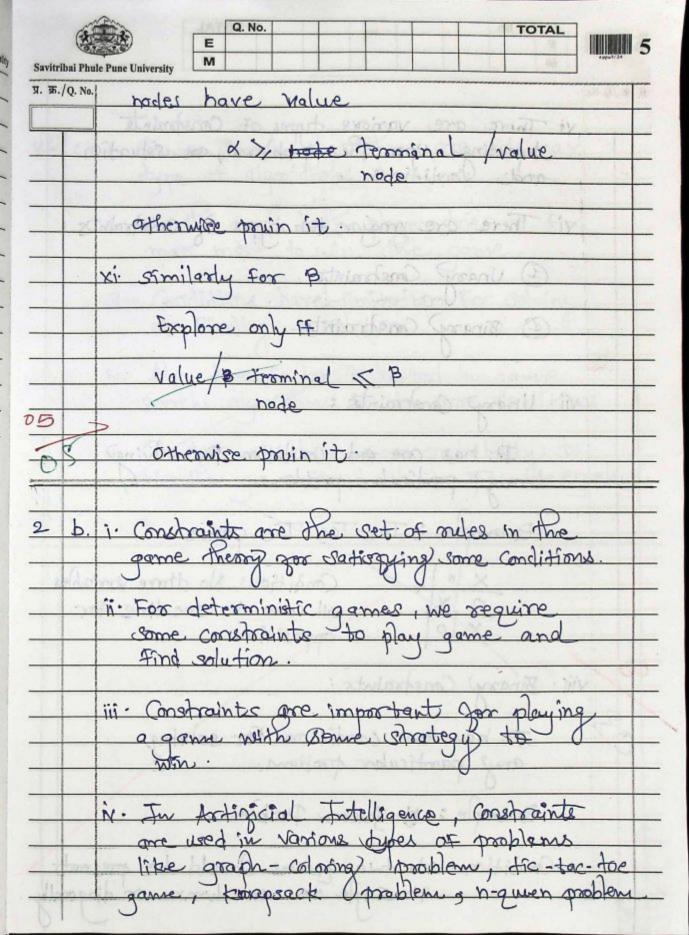
Examiner and Moderator has to write marks on all given appropriate places only. Examiner should give assessment tick (\checkmark) or (x) in the margin.

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q.	1 Alpha-Beta powining is the extended version of minimax algorithm.
	ii. It has two types of node selection for each level. One is max node and other is min node.
1 8	iii- In alpha-beta tree search at less number of nodes are explored for getting the path of the tree search.
	iv. For minimax algorithm: Time Complexity: 0 (bd)
	b: branching gottor di depth of the Branch true.
levil.	v. For d-B prouining:
	Time Complexity: 0 (bd/2)
. 9	For two branches, one is primed so it gets divided.
	vi. This X-B provining search is better than minimax due to less not of branches are yisited and therefore it takes

less amount of time.





6 Q. No. DIAL Savitribai Phule Pune Università 双. 弱./Q. No. vi There are various types of Constraints depending upon the problems, an intration 2 and Conditions vi. There are major tub types of constraints: (2) Unarry Constraints. @ Binarry Constraints. vii. Unary Constraints: It has one and condition for solving any particular problems Example: Tic-Tec-Toe game Condition: No three variables will come in one line for opposition 03 viii · Binary Constraints: It has two condition for solving Example: 27 - Queen Problem Condition: No two queens should be present in single row or column or diagonally.



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	1. Game Bearch algorithms are minimax type of algorithms.
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	ii. In this type both player tries to find max more to win the game.
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8 M Savitribai Phule Pune University 以. 南./Q. No. Propositiona First - Order a Logic logic i. It conditts of fact 1. It consists of Function and rules. relation and objects ii. It has simple signtax ii. It has simple syntax defined in logical with additional grammer order. variables. iii. It is a type of boolean iii. It is a type of predicate logic, which is either logic, based on relation trade or false. of natural language. iv. Operations one: WOperations are: Logical operations Complex o operations Anding (1) onno (V) logical operations + Disjunction (V) conditions. Negation (7) Implication (=)) V. It is the core of v. It is present at all 1099c outer of provisional logic due to extra operations. Preposition Logic FOL Proposition Logic



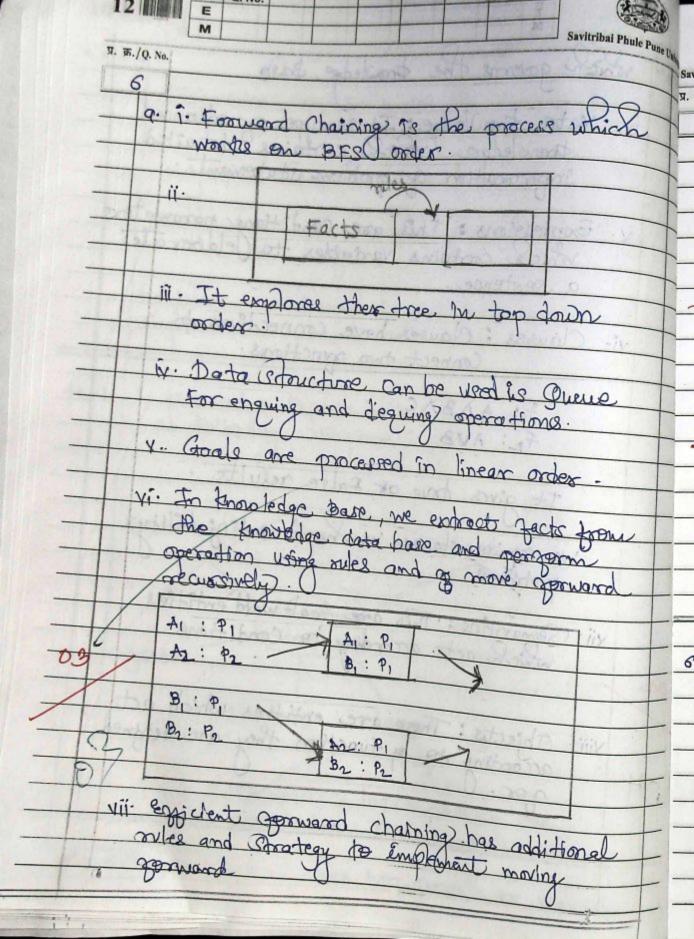
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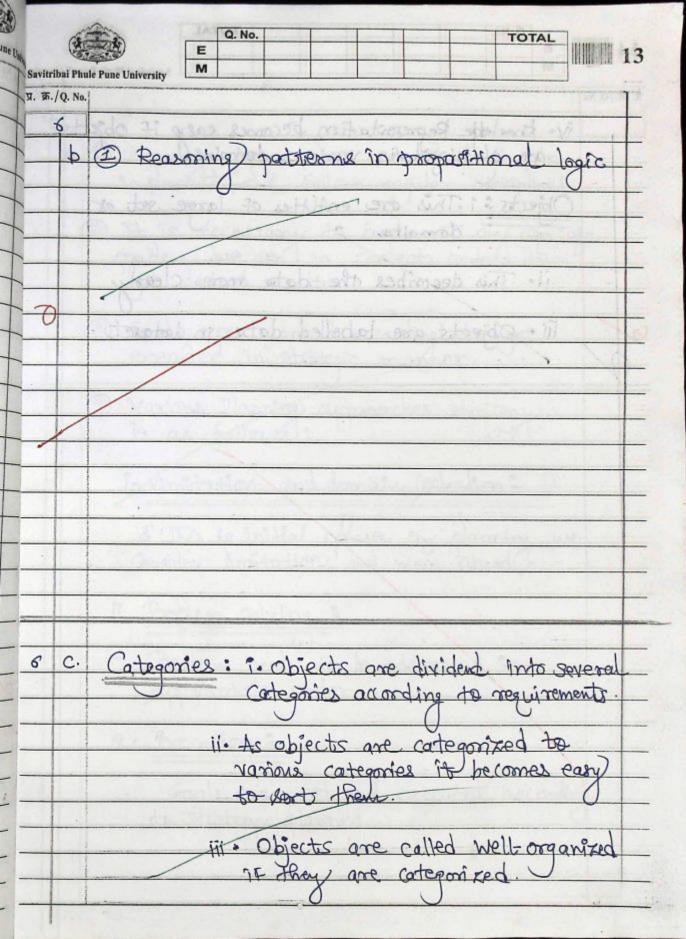
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1	Connective => and (1)
	APCON R (clever)
141	MR (boy) N R (Clever)
	Inference Rules:
	Conjunction: ANB
	Disjunction: AVB
	Negation: NA or JA
	Implication: A => B
	Double-Implication: A (=> B
	Examples of abover rules:
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