Mahindra University Hyderabad

École Centrale School of Engineering End Semester Regular Examination

Program: B. Tech.

Branch: ALL

Year: III

Semester: I

Subject: Introduction to Language and Mind (HS 3012)

Date: 18- December- 2024 Time Duration: 3.0 Hours Start Time: 10:00 AM Max. Marks: 100

Instructions:

- 1) All questions are mandatory and carry the marks as shown.
- 2) There are 3 sections, A, B and C
- 3) All answers are to be written in the answer booklet only

SECTION: A

Multiple Choice Questions $(1 \times 25 = 25 \text{ Marks})$

- 1. What is the key feature of human language compared to non-human communication?
- A) Predictability
- B) Recursiveness
- C) Simplicity
- D) Fixed Signals
- 2. According to Chomsky, what is responsible for innate language acquisition?
- A) Universal Grammar
- B) Memory Systems
- C) Behavioral Imitation
- D) Genetic Mutations
- 3. What does the term "poverty of stimulus" refer to?
- A) Poor teaching methods
- B) Inadequate language input
- C) Limited cognitive ability
- D) Lack of social interaction
- 4. The critical period hypothesis suggests language acquisition declines after:
- A) 5 years

| 6. What does "I" stand for in the I-language perspective? | A or Name & |
|--|-------------|
| A) Innate | |
| B) Internal | |
| C) Intentional | |
| D) Ideal | |
| | |
| 7. What are the basic building blocks of language? | |
| | |
| A) Sounds | |
| B) Words | |
| C) Sentences | |
| D) Phrases | |
| | |
| 8. What is the distinguishing feature of e-language? | |
| | |
| A) Biological foundation | |
| B) Externalized function | |
| C) Innate knowledge | |
| D) Genetic structure | |
| To be a substitute of the subs | |
| 9. What principle is central to Universal Grammar? | |
| | |
| A) Language is behaviorally learned | |
| 3) Language varies infinitely | |
| C) Language has predictable patterns | |
|)) Language evolves constantly | |
| | |

10. Which stage involves the use of 50-100 words in children?

5. Which area of the brain is associated with speech production?

B) 10 yearsC) 13 yearsD) 18 years

A) Wernicke's AreaB) Broca's AreaC) HippocampusD) Thalamus

- A) Babbling stage
- B) One-word stage
- C) Two-word stage
- D) Telegraphic stage
- 11. What is the role of Broca's area in language?
- A) Understanding speech
- B) Speech production
- C) Recognizing sounds
- D) Controlling hearing
- 12. What is the "innateness hypothesis" associated with?
- A) Learning through imitation
- B) Biologically hardwired language capacity
- C) Dependence on external stimuli
- D) Memorization of vocabulary
- 13. Who introduced the term "I-language"?
- A) Charles Darwin
- B) Noam Chomsky
- C) Karl Wernicke
- D) B.F. Skinner
- 14. What type of language learning is "child's play"?
- A) Second language acquisition
- B) First language acquisition
- C) Learning through behaviourism
- D) Learning grammar explicitly
- 15. Which of the following is NOT a feature of human communication?
- A) Creativity
- B) Arbitrariness
- C) Recursiveness
- D) Limited signals
- 16. What is the key argument against FOXP2 as a "language gene"?

| A) It only | y controls vocal tract movements |
|---|--|
| R) It can | ses complete language loss |
| C) It has | no evolutionary link |
| D) It is in | rrelevant to language |
| 17. Which | ch stage of language development is characterised by cooing sounds? |
| A) Babb | ling stage |
| | nguistic stage |
| C) Teleg | raphic stage |
| D) Two- | word stage |
| 18. Wha | t feature makes human language recursive? |
| A) Use o | of unique symbols |
| | te combinations of sentences |
| | structure of grammar |
| D) Fixed | l vocabulary |
| 19. Whic | ch of the following is NOT an example of tacit knowledge? |
| A) Know | ving the correct gender agreement in Hindi |
| | orizing vocabulary lists |
| NATIONAL PROPERTY OF THE PARTY | ng grammatical correctness |
| D) Differ | rentiating valid words in a language |
| 20. Which | h of these terms refers to the internalised rules of language that allow pattern on? |
| A) E-lang | uage |
| B) LAD | |
| C) K ₀ L D) UG | |
| <i>D</i>) 00 | |
| 21 | Area is adjacent to the area that controls motor movements of the vocal trac |
| A) Wernic | ke's area |
| B) Broca's | |
| C) Frontal | lobe |

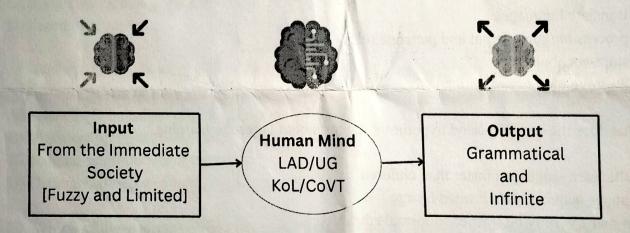
D) Temporal lobe

| 22. Damage in the corresponding right hemisphere shows little effect on |
|--|
| A) Hearing |
| B) Speech |
| C) Vocal chords vibration |
| D) Nasal cavity |
| 23aphasics are fluent. They are in a rush and use several words. But have |
| difficulty understanding them and making sense. |
| A) Anomic aphasics |
| B) Conduct aphasics |
| C) Wernicke's aphasics |
| D) Broca's aphasics |
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| 24. What is the Language Acquisition Device's primary role (LAD) role? |
| A) To translate languages |
| B) To process language input and generate rules |
| C) To store vocabulary |
| D) To improve memory retention |
| 25. What does the critical period hypothesis suggest about language learning? |
| A) Adults learn languages faster than children |
| D) Language acquisition is limited by age |
| C) Grammar can only be learned in formal education |
| D) Vocabulary learning improves with age |
| SECTION: B |
| Write any 6 short answers for 5 marks each. Answer in 80-100 words (6 \times 5 = 30 Marks). |
| 1. Explain the role of the "Language Acquisition Device (LAD)" in language learning. |
| 2. What are the differences between I-language and E-language in the context of language and mind? |
| 3. Define "poverty of stimulus" in language acquisition. Why is it significant? |
| 4. What does the "critical period hypothesis" state about language learning? |
| 5 Compare the roles of Broca's and Wernicke's areas in language processing. |
| 6. How does tacit knowledge influence language use? |
| 7. How do children acquire language through patterns? Discuss with examples. |

SECTION: C

Write any 3 long answers for 15 marks each. Answer in 250-300 words (3 \times 15 = 45 Marks).

- 1. Discuss the importance of Universal Grammar and its relationship with the Language Acquisition Device in language development.
- 2. Eleborate the language processing model in the human brain with suitable examples.



- 3. How do language and mind complement each other? Connect linguistics with cognitive sciences?
- 4. Describe human sound engineering with examples, discuss the conditioning of the vocal tract (CoVT), and relate it to the UG and LAD.