Направление: «Фундаментальная и прикладная лингвистика»

Профиль: «Лингвистическая теория и описание языка/ Linguistic Theory and Language Description»

КОД – 311

Время выполнения задания – 180 мин., язык - английский.

Linguistic Theory and Language Description Three hours, solutions in English

Task 1. Swatchers

In a small Asian country, the span of, and the access to, the internet is state-controlled and very limited. There are only four web pages, \aleph , \beth , \lnot and ∞ , which may cross-reference each other but do not lead outside to the web. \aleph only links to \beth , \beth only links to \lnot . Web page ∞ only links to itself. \lnot , however, contains as many as two different links. One brings you to \aleph , the other brings you to ∞ .

A user turns on her computer and is randomly brought to one of these web pages, with equal probabilities. After reading the page, she follows one of the links on the web page (again with equal probabilities in case there are more than one).

- a) What is the probability of her getting to **X** after one click?
- b) What is the probability of her getting to \(\mathbb{\Backs}\) after three clicks?
- c) Prove that, sooner or later, she gets to ∞ (never to leave it)

Task 2. The beginning of the armadillos is the end of the jaguars

(Inspired by Kipling 1900 and Dixon 1998, adapted from Merrifield et al. 2003 with minimal changes)

I'd like to roll to Rio,

Some day before I'm old.

RK

Consider the following sentences in language C and their translations. Based on their analysis, provide:

- (a) an exhaustive list of morphological glosses for language C (the glosses should be given as pairs consisting of the formal exponent and its grammatical meaning)
- (b) a typologically informed description of coding core arguments (AKA grammatical relations)

1. *t̃ bitsã tsakakī* 'My brother shoots it.'

2. *t̃ bitsã isu haida tsakakī* 'My brother shoots many spider monkeys.'

3. *t̃ bitsã piawt̃ isu tsakakī* 'My brother shoots spider monkey with arrows.'

4. *\tilde{\tau}* isu tsakai kas\tilde{\tilde{u}} I hunted (went shooting) spider monkey.'

5. miarã ĩ ũĩṣũ 'I saw you.'

6. habu butukĩ 'He goes down.'

7. mĩ kaşũ 'You went.'

8. *t̃ bitsā hasī ũikī* 'My brother sees wild turkey.'

9. haarā hasiwi inā imawawasū 'Mine killed him with a spear.'

10. hasĩ ĩ bitsa ũĩkĩ 'A wild turkey sees my brother.'

11. hasĩ kuſi kakĩ 'A wild turkey goes fast (runs).'

12. *t̃ bitsã tsakabãikī* 'My brother shoots it, going along.'

13. kumã isu iwopa ũĩṣũ 'The partridge saw a big spider monkey.'

14. hunī isu iwopa haida ũĩṣũ 'The man saw a very big spider monkey.'

15. kuma haidā huni ū̃nū 'Many partridges will see the man.'

16. $\tilde{\imath}$ kuka ye $\tilde{\imath}$ tsakai kan $\tilde{\imath}$ 'My father-in-law will hunt (go shooting) armadillo.'

17. *yeʃã ŧ̃ kukã ũĩkĩ* 'My father-in-law sees armadillo.'

18. \tilde{t} kuka pɨpä isu ũĩṣũ 'My good father-in-law saw a spider monkey.'

19. \tilde{t} tfe haidā tsakabubusū 'My many brothers-in-law shot it from place to place.'

20. *t̃ isu pi pɨsupiſta ũt̃t kanũ* 'I'll go seeing a small spider monkey.'

21. hĩsĩsã ỹ ũĩbãĩkĩ 'Going along I see ants.'

22. *t̃ isu sɨta ũĩnũ* 'I'll see spider monkey teeth.'

23. *habūna tsakabubui kakī* 'His hunts them from place to place.'

24. *isu kurũ mĩna ũĩṣũ* 'The grey spider monkey saw yours.'

25. habũ bɨtsã ɨ kuma haida ũĩṣũ 'His brother saw my many partridges.'

26. mĩ kukã isu sita ũĩsũ 'Your father-in-law saw spider monkey teeth.'

27. kuma iwopa haida kuſi kanū The very big partridge will run.'

28. *t̃ isu bɨsu ũt̃kt̃* 'I see a spider monkey face.'

29. *isu iwopa haidā pia ũĩnũ* 'A very big spider monkey will see the arrows.'

30. hunirā pia haidawī i tsakakī 'I shoot men with many arrows.'

31. *kawi* 'Go!'

32. *t̃ bitsarã t̃ des pipã ũĩnũ* 'My good nephew will see my brother.'

33. *Ḥarã ĩ bɨtsã ũĩkĩ* 'My brother sees me.'

34. *mīnā hasī pii bitſikī* 'Yours wants wild turkey feathers.'

35. tsakai kawi 'Hunt!'

36. habũ isurã ĩnã ũĩkĩ 'Mine sees his spider monkey.'

37. *isu imawawai inawi* 'Go up killing monkey!'

38. *ĩnarã habũ isũ bɨtʃibãĩnũ* 'His spider monkey will want mine going along.'

39. *ĩna tsakawi* 'Shoot mine!'

40. isu mĩkɨnä huni haidä ũiki 'Many men see a monkey hand.'

41. *niwi* 'Walk!'

42. hasĩ batſirã habũ bɨtʃikĩ 'He wants wild turkey eggs.'

43. habūnā mia ūībubunū 'His will see you from place to place.'

44. *kuſi butuwi* 'Go down fast!'

45. huni iwopā niſi bitſikī 'The big man wants a rope.'

46. haa imawawawi 'Kill him!'

47. hĩsĩs haida inakãĩsũ 'Many ants ascended going along.'

48. habũ kukã haſi ũĩbãĩṣũ 'His father-in-law saw the spear going along.'

49. *inawi* 'Go up!'

50. *tſe pipa kakukukĩ* 'Good brothers-in-law go from place to place.'

51. mĩ tſe pɨpa haida kuſi kakukuṣũ 'Your very good brother-in-law ran from place to place.'

52. *yef bitfiwi* 'Want armadillo!'

53. *ĩ hasī batſi bɨtʃinũ* 'I'll want wild turkey eggs.'

54. mĩna tsakai kaşũ 'Yours hunted it.'

55. $\tilde{u}\tilde{i}\tilde{i}$ butuwi 'Seeing go down!

56. habũ kuka pɨpa kuſi butunũ 'His good father-in-law will descend fast.'

57. $\tilde{\imath}$ kuk \tilde{a} kuma pii bitſi $\tilde{\imath}$ 'My father-in-law wanted partridge feathers.'

58. binurã \tilde{i} bits \tilde{i} 'I wanted a club.'

59. *i imawawai kasū* 'I went killing it.'

60. *habu kufi nikukusũ* 'He walked fast from place to place.'

61. *hafī inu imawawaṣū* 'The spear killed the jaguar.'

62. hasĩnã ĩ bitsa pipa haidã ũĩkĩ 'My very good brother sees a wild turkey.'

63. *t̃ bitsa t̃ isu pisupiſta ŭt̃i inasū* 'My brother, seeing my small spider monkey, went up.'

64. habũ dẽs pia haidawĩ isu tsakaşũ 'His nephew shot spider monkeys with many arrows.'

65. mĩ kuma iwopa haidã haa ũĩkĩ 'Your very big partridge sees him.'

66. habũ binuwĩ imawawabãĩkĩ 'He going along kills with a club.'

67. kumarā habū binuwī ī imawawanū 'I'll kill partridge with his club.'

68. huni iwopa haidarā kuma iwopā ūisū 'The big partridge saw the very big man.'

69. habũ habũ isu pɨşupi/ta haida tsakaşũ 'He shot his very small spider monkey.'

70. mĩ bitsa isu kũĩ bitsibãĩni butukĩ 'Your brother, going along wanting real

monkeys, descends.'

71. isurã \tilde{t} pia haidaw \tilde{t} tsakai inak \tilde{t} 'I, shooting a spider monkey with my many

arrows, go up.'

72. hasī haidarā hīsīs bɨtʃii butukukuṣū "The ants wanting many wild turkeys went down

from place to place.'

73. mĩnarã piawĩ habu imawawabãini kakĩ 'He, going along killing yours with arrows, goes.'

74. habû isu pişupiftarâ î pia haidâ imawawakî 'My many arrows kill his small spider monkey.'

75. *i bitsā pia iwopa haidawi kuma tsakabāiki* 'My brother going along shoots a

partridge with a very big arrow.'

76. mĩ isu kũĩ $\tilde{\imath}$ niſi kũĩw $\tilde{\imath}$ habũna imawawanũ 'Your real monkey will kill his with my

real rope.'

77. \tilde{i} tse haidā hast iwopawī inu imawawabātsū 'My many brothers-in-law going along

killed a jaguar with a big spear.'

78. inű habű şɨtawɨ huni pɨşupiſta imawawakĩ 'The jaguar kills the small man with his teeth.' 79. huni habû binu iwopa haidawî yef 'The man will walk going along, killing armadillo with his very big club.' imawawai nikãinũ 80. mĩ isu haidarã ỹ pia ɨwopawĩ ĩ tsakabubui kanũ 'I'll hunt your many spider monkeys from place to place with my big arrows.' 'He, killing armadillo with a big 81. yefā hafī iwopawī habu imawawai imakukunū spear, will go up from place to place.' The very big jaguar kills real 82. isu kũĩnã habũ sɨtawɨ inu ɨwopa haidã imawawabubuki monkeys with his teeth from place to place.' 'I walk killing your armadillo with my 83. ĩ ĩ binu haidawĩ mĩ yeʃ imawawai nikĩ many clubs.' 84. ĩ isu pɨşupiſta haidarã binu pɨşupiſta haidawĩ 'You kill my very small spider monkey with a very small club.' mĩ imawawakĩ 'You killed his with your very big club.' 85. habūnarā mī binu iwopa haidawi mī imawawasū