5. Answer the following questions (any one) : 14

(a) Explain and illustrate the main causes of semantic change. 14

(b) Write notes on : 7×2=14

(i) Phonology

(ii) Statistical method

(c) Write notes on : 7×2=14

(i) Linguistics

(ii) Sanskrit dictionary

★ ★ ★

---

2 0 2 3

SANSKRIT

Paper : SNSHE6046

(Tools and Techniques for Computing Sanskrit Language)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

The figures in the margin indicate full marks for the questions

1. Choose the correct answer (any six) : 1×6=6

(a) Language is the mode of expression of thoughts by the name of

(i) speech

(ii) articulate

(iii) inarticulate

(iv) organic

(*Turn Over*)

(b) Which script is considered as the mother of all Indian scripts?

   (i) Harappan

   (ii) Brahmi

   (iii) Devanagari

   (iv) Bengali

(c) Which one is the science of language?

   (i) Semantics

   (ii) Morphology

   (iii) Phonology

   (iv) Philology

(d) The full form of NLP is

   (i) Natural Language Processing

   (ii) Natural Language Pipeline

   (iii) New Language Processing

   (iv) Natural Language Prakrit

(e) Who is the father of Sanskrit language?

   (i) Pāṇini

   (ii) Patañjali

   (iii) Kātyāyana

   (iv) Vālmīki (वाल्मीकि)

(f) Devanagari script is used to write

   (i) Greek

   (ii) Sanskrit

   (iii) Latin

   (iv) English

(g) The brain of any computer system is

   (i) ALU

   (ii) Memory

   (iii) CPU

   (iv) Control unit

(h) Communication between user and the computer is

   (i) programming language

   (ii) software

   (iii) syntax

   (iv) English

(i) Which language is best for machine learning?

   (i) C

   (ii) Java

   (iii) Python

   (iv) HTML

(j) The study of meaning is called

   (i) phonology

   (ii) morphology

   (iii) semantics

   (iv) syntax

2. Write short notes on any *five* of the following :   2×5=10

   (a) Word

   (b) Script

   (c) NLP

   (d) DTP

   (e) Language

   (f) Computer

   (g) Machine language

3. Answer the following questions (any six) :   5×6=30

   (a) Write an essay on semantics.

   (b) Give the introduction of syntax.

   (c) What do you mean by phonetic change?

   (d) Point out the main differences between the Vedic and Classical Sanskrit.

   (e) Write a note on Sanskrit vowels.

   (f) Show the differences between language and speech.

   (g) Describe the rule-based method of language computing in detail.

   (h) Write a note on Lexicon.

   (i) Write about the methodology of computing Sanskrit language.

   (j) Describe the hybrid method of language computing.

4. Answer the following questions (any *two*) :   10×2=20

   (a) Write a note on the tools for computing Sanskrit language.

   (b) What are the different types of basic language used computer programming?

   (c) Write a note on Sanskrit morphology.

   (d) Give a survey of Sanskrit language computing.