

## **General Instructions:-**

1. Punjabi and English type tests will be conducted on the computer using typing software. The type test will be evaluated by the software and result will be displayed instantly, including all the typing errors.
2. The Candidates will have to type Punjabi passage in **Unicode Compliant Raavi Font** using INSCRIPT keyboard. The Punjabi passage will be composed from characters taken from Gurmukhi alphabet, Gurmukhi and English numbers and punctuation marks. The Candidates are supposed to type the text exactly as provided in the question paras.
3. The duration of the Punjabi and English type test will be 10 minutes for each test.
4. Time interval of 5 min. will be provided between both language tests.
5. To clear the test, the candidate must have a minimum **Gross typing Speed (Optionally it could be Net typing speed too, that BFU can decide)** of 30 words per minute in both Punjabi and English. Maximum 8% mistakes would be permissible to pass the test, meaning thereby that at least 92% accuracy is required in addition to the typing speed.
6. Proper care has to be taken for spaces while typing punctuation marks. Wrong spacing of punctuation marks will be treated as space error. For Punjabi, the *lagamatras* and half characters have to be typed at proper positions and if any such character is omitted or additional characters are added in the words, then the complete word will be treated as wrong.
7. Some of the keys of the keyboard, which are not relevant to the typing test software, would remain non functional during the typing test.
8. A mock test will be made available on the spot before the typing test.

## **Typing speed related instructions:-**

1. Definition of a "word" has been standardized to five characters, including spaces and punctuation.
2. The passage given for typing Punjabi and English will be displayed on the screen in chunks of 3 lines of text, and the candidate has to type the matter **exactly**. Extra words (not found in the text) and characters typed by the candidate will be considered as mistakes. Omission of any punctuation mark will also be treated as a mistake.
3. Each chunk of text will contain approximately 32-34 words and there will be total 10 such chunks. Candidate has to type all the 10 text chunks to be eligible for clearing the test. Candidates who finish typing all the 10 text chunks can use the remaining time to remove mistakes in the typed text to improve the typing accuracy.
4. After typing 80% of text in current chunk, candidate can use the Enter key or down arrow key to move to next chunk of text. There is penalty for skipping the words, so candidate should take care that all the words given in the chunk are typed. For editing the text, Up arrow key can be used to move to previous line while PgUp and PgDn keys can be used to move to previous or next chunks of text.

5. Spaces, numbers, letters, punctuation and enter key are all counted as characters for calculating gross speed, but extra spaces, extra enter keys and any function keys such as Shift, Alt or Backspace will **not be** counted.
6. For Punjabi words, vowels(ਉ, ਊ, ਐ, ਆ etc.), consonants (ਕ, ਖ, ਗ, ਘ etc.), matras (ਾ, ਿ, ੀ etc.), addak, bindi, tippi, half characters and bindi characters (ਸਖਗਜਫਲ) are all treated as single characters. Thus total number of characters in Punjabi word ਆਸਰਾ are four (ਆ,ਸ,ਰ, ਾ) while the word ਸ੍ਰੀ has three characters.
7. For Punjabi words in Unicode, vowels should be typed as single character and not as combination of vowel carrier+matra. Thus for example, ਆ **should not** be typed as combination of two characters (ਅ followed by ਾ) but as a single character only. The table below gives the correct keys combination for typing the vowels on Inscript keyboard.

Correct Vowel Usage	Inscript keyboard keys combination	Wrong Vowel Combination (Not Acceptable)
ਉ	Shift + G	ਉੁ
ਊ	Shift + T	ਊੂ
ਓ	Shift + A	ਓ
ਆ	Shift + E	ਅਾ
ਐ	Shift + W	ਅੈ
ਐ	Shift + Q	ਅੌ
ਇ	Shift + F	ਿਇ
ਈ	Shift + R	ਈੀ
ਏ	Shift + S	ਏੇ

## 8. Calculation of Errors

### i) Full mistakes:

- Omission of any word
- Substitution of any wrong word
- Addition of any wrong/Extra word not found in the passage

### (ii) Half mistakes:

- Spacing errors: Where no space or extra space is provided between two words

## 9. Typing speed and accuracy percentage are calculated as follows:

- Gross characters = total number of characters typed
- Error characters = number of mistakes x word length (i.e. 5)
- Net characters = Gross characters - Error characters
- Gross speed (in words per minute) = Gross characters / (word length x test duration(in minutes))
- Net speed (in words per minute) = Net characters / (word length x test duration(in minutes))
- Accuracy Percentage = (100 x Net characters) /Gross characters.
- **Note** – Gross speed is always in integer, the decimal part is truncated. So for example, if the Gross characters typed in 10 minutes are 298, then the Gross Speed = 29 and **not 29.8**

10. For incorrect words, the extra characters typed, which are more than the length of the reference word, are ignored for determining the gross speed. So e.g. if the word *university* is wrongly typed as *univty* then the characters typed will be taken as 6 (number of characters in *univty*) for gross speed. But if the user types *universities* then for measuring the gross speed, the characters typed will be taken as 10 (number of characters in *university*) and not 12 (number of characters in *universities*).

### **Speed calculation examples:-**

Consider the following passage for typing:

*My daughter is studying at Punjab University Chandigarh*

If the user types in **two minutes:**

#### **Case 1 : *My daughter is studying at Punjab University Chandigarh***

- Gross characters = 55 (sum of all characters in text including spaces and punctuation marks)
- Error characters = 0
- Net characters = 55-0 = 55
- Gross speed =  $\frac{55}{5 \times 2} = 5$  WPM
- Accuracy percentage =  $\frac{100 \times 55}{55} = 100\%$

#### **Case 2 : *My son is studying at Punjab University Chandigarh***

- Gross characters = 50
- Error characters = 5 (1 word wrong)
- Net characters = 50-5 = 45
- Gross speed =  $\frac{50}{5 \times 2} = 5$  WPM
- Accuracy percentage =  $\frac{100 \times 45}{50} = 90\%$

**Case 3 : My daughter is studying at them Punjab University Chandigarh**

- Gross characters = 60
- Error characters = 5 (1 extra)
- Net characters =  $60 - 5 = 55$
- Gross speed =  $\frac{60}{5 \times 2} = 6$  WPM
- Accuracy percentage =  $\frac{100 \times 55}{60} = 91.67\%$

**Case 4: My daughter it studying at PunjabUniversity Chandigarh**

- Gross characters = 54
- Error characters = 7.5 (1 wrong + 1 merged)
- Net characters =  $54 - 7.5 = 46.5$
- Gross speed =  $\frac{54}{5 \times 2} = 5$  WPM
- Accuracy percentage =  $\frac{100 \times 46.5}{54} = 86.11\%$

**Case 5: My studying atte Punjab Univer sity Chandigarh**

- Gross characters = 44
- Error characters = 17.5 (2 missing + 1 wrong + 1 split)
- Net characters =  $44 - 17.5 = 26.5$
- Gross speed =  $\frac{44}{5 \times 2} = 4$  WPM
- Accuracy percentage =  $\frac{100 \times 26.5}{44} = 60.22\%$