

MEASUREMENT OF INTELLIGENCE

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Measurement of intelligence.

- The intelligence test can be classified as follows;



Individual Verbal test

- The test involve the use of language and administered to an individual at a time.
- An example for this is Stanford-Binet Scale.
- French Psychologist Alfred Binet (Father of intelligence) has constructed this scale.
- This test contains 30 items arranged in order with increasing difficulty.
- At age 3 Point out nose, eyes and mouth.
- At age 7 what is missing in the unfinished picture.
- The test is for people from 2 to 20 years.
- The Indian version is called Samanya Budhi Pariksha.
- The scores are used to calculate IQ.

Individual Performance test

- In this test the contents and responses are in the form of performance.
- Language is not used at all.
- The performance in these activities are tested.
- Some of them are;

☐ Block Building/Cube Construction: asked to make a structure or design by means of blocks or cubes.



Individual Performance test

☐ To fit the blocks in the hole:

☐ Tracing a maze:

☐ Picture arrangement:



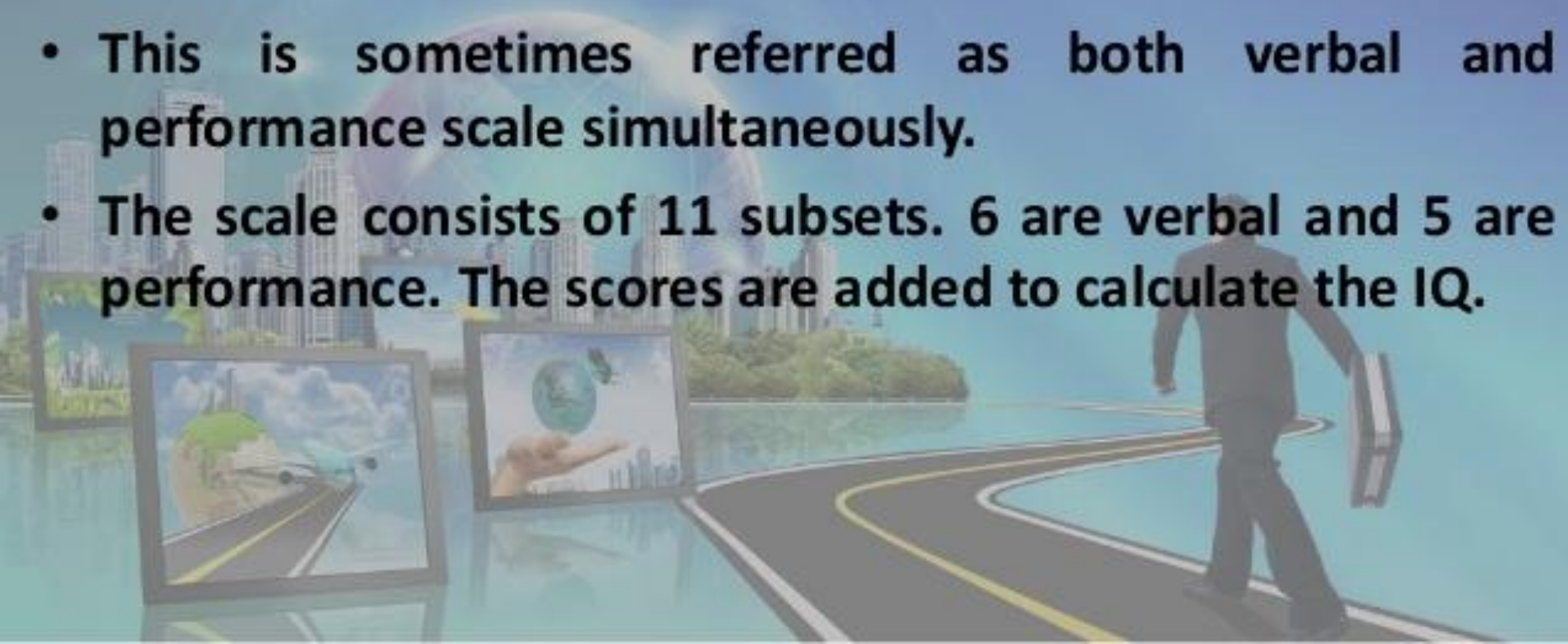
Individual Performance test

- These test try to emphasize the significance of performance.
- It is evaluated by number of attempts and the duration taken to complete the test.



Individual Performance test

- Another commonly used individual performance test is Wechsler Bellevue Intelligence test.
- It has two version such as WISC (Wechsler Intelligence scale for children) and WAIS (Wechsler Adult Intelligence Scale).
- This is sometimes referred as both verbal and performance scale simultaneously.
- The scale consists of 11 subsets. 6 are verbal and 5 are performance. The scores are added to calculate the IQ.



Wechsler Bellevue Intelligence test

- **Verbal Scale:**

Test for General Information

Test for general comprehension.

Test for arithmetic reasoning.

Test for distinction between similarities.

Test for digits span.

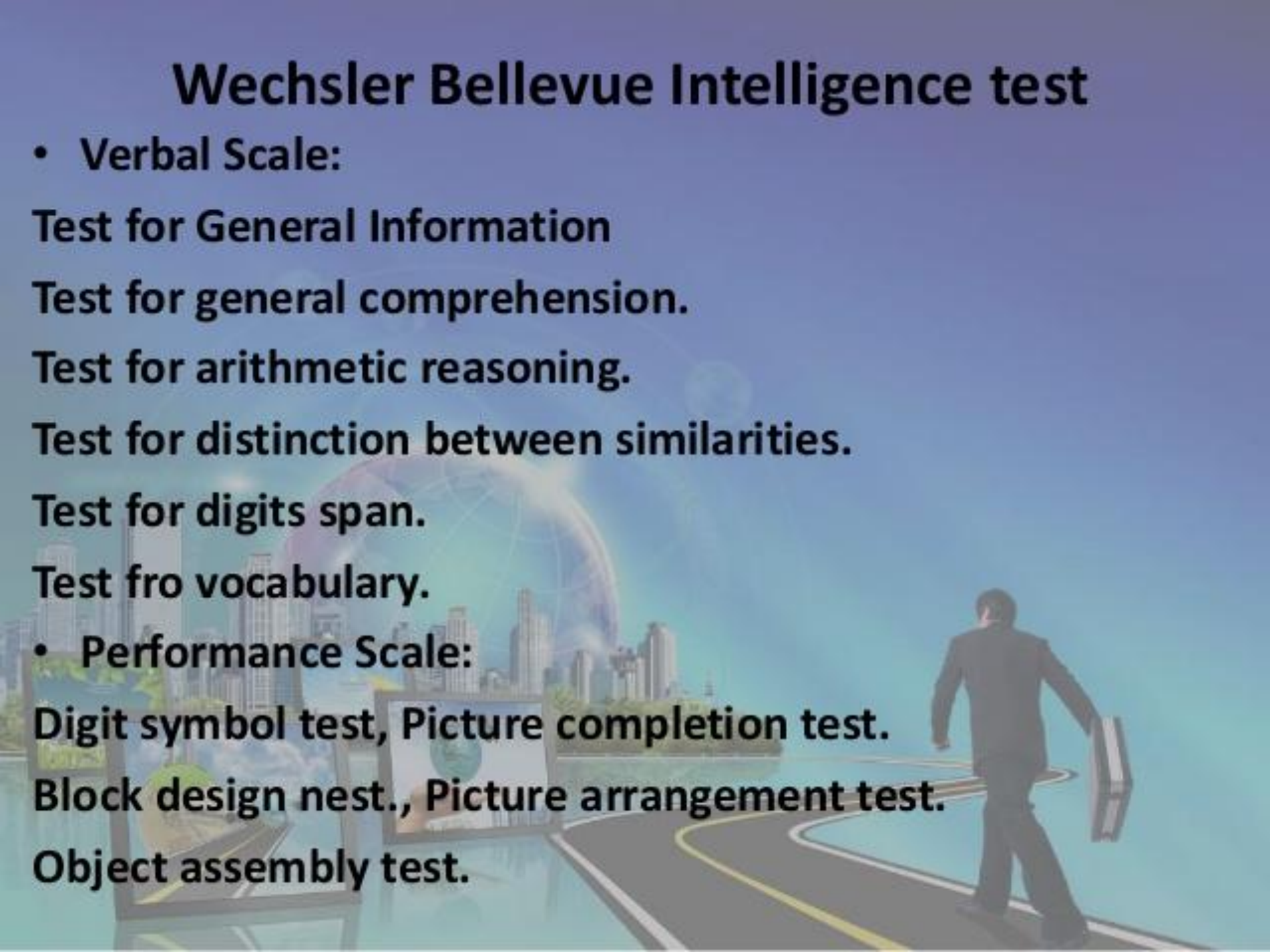
Test for vocabulary.

- **Performance Scale:**

Digit symbol test, Picture completion test.

Block design test., Picture arrangement test.

Object assembly test.



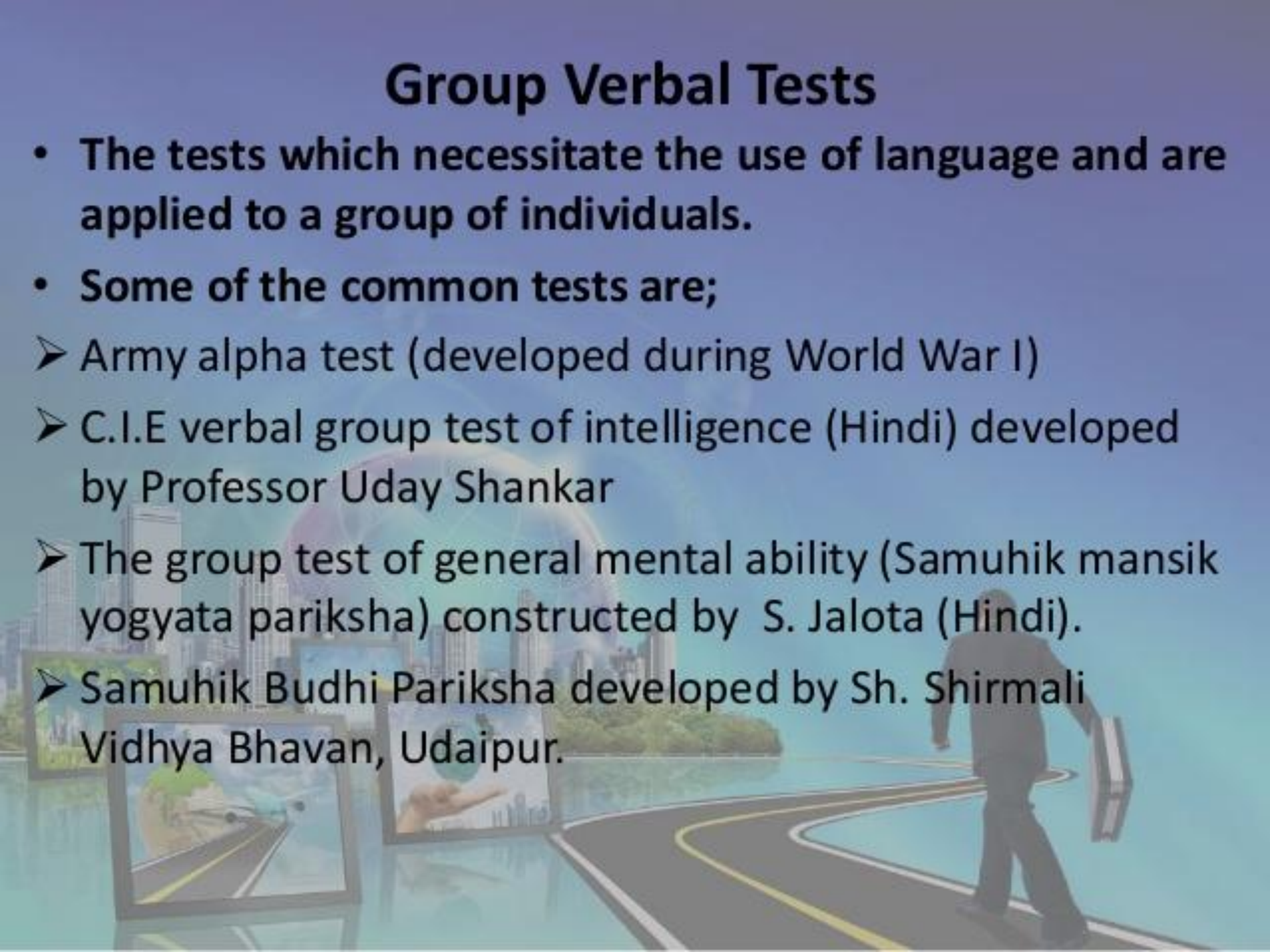
Wechsler Bellevue Intelligence test

- Some questions are

1. Consider all numbers from 1-60, in sequence. If you add any two consecutive numbers, will the result be: **Odd, Even, It depends**
2. When the letters are rearranged in ANGRIATEN, you get the name of a: **State, Country, Continent, Planet, Ocean**
3. If Barry weighs 150 pounds, Ted weighs 125 pounds and Matt weighs 175 pounds, any two of them together weigh 300 pounds. **True or False**
4. The number, "three thousand, eight hundred, sixty-eight," when written backward, is read, "eight thousand, six hundred, eighty-three." **True or False**

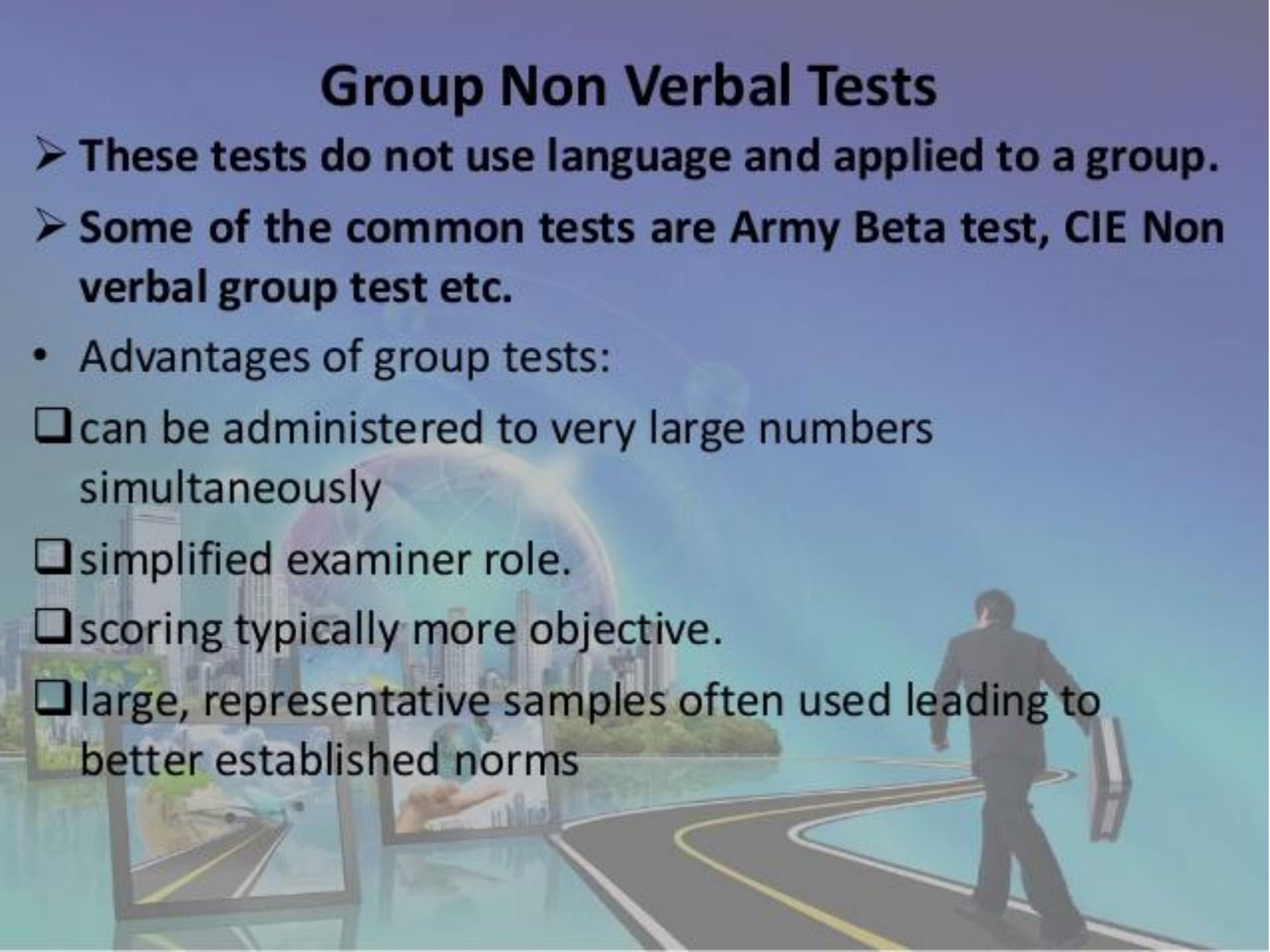
Group Verbal Tests

- The tests which necessitate the use of language and are applied to a group of individuals.
- Some of the common tests are;
 - Army alpha test (developed during World War I)
 - C.I.E verbal group test of intelligence (Hindi) developed by Professor Uday Shankar
 - The group test of general mental ability (Samuhik mansik yogyata pariksha) constructed by S. Jalota (Hindi).
 - Samuhik Budhi Pariksha developed by Sh. Shirmali Vidhya Bhavan, Udaipur.



Group Non Verbal Tests

- These tests do not use language and applied to a group.
- Some of the common tests are Army Beta test, CIE Non verbal group test etc.
- Advantages of group tests:
 - ☐ can be administered to very large numbers simultaneously
 - ☐ simplified examiner role.
 - ☐ scoring typically more objective.
 - ☐ large, representative samples often used leading to better established norms



Group Non Verbal Tests

Disadvantages of group tests:

- ☐ Examiner has less opportunity to obtain cooperation and maintain interest
- ☐ Not readily detected if examinee tired, anxious, unwell.
- ☐ Evidence that emotionally disturbed children do better on individual than group tests
- ☐ Examinee's responses are more restricted
- ☐ Normally an individual is tested on all items in a group test and may become bored over easy items and frustrated or anxious over difficult items.
- ☐ Individual tests typically provide for the examiner to choose items based on the test takers prior responses - moving onto quite difficult items or back to easier items. So individual tests offer more flexibility.

Verbal Vs Non verbal test.

Advantages of performance test:

- ☐ Useful for those without language.(Illiterate, foreign language, problems with sense organs, etc.)
- ☐ Good to understand skill in mechanical jobs etc.

Disadvantages of performance test:

- ☐ Cannot predict scholastic ability.
- ☐ Very costly.
- ☐ Less reliable as chance of success are more.
- ☐ Good for mental ability but not good enough for abstractions and concepts.

