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Independent Dependent Variable

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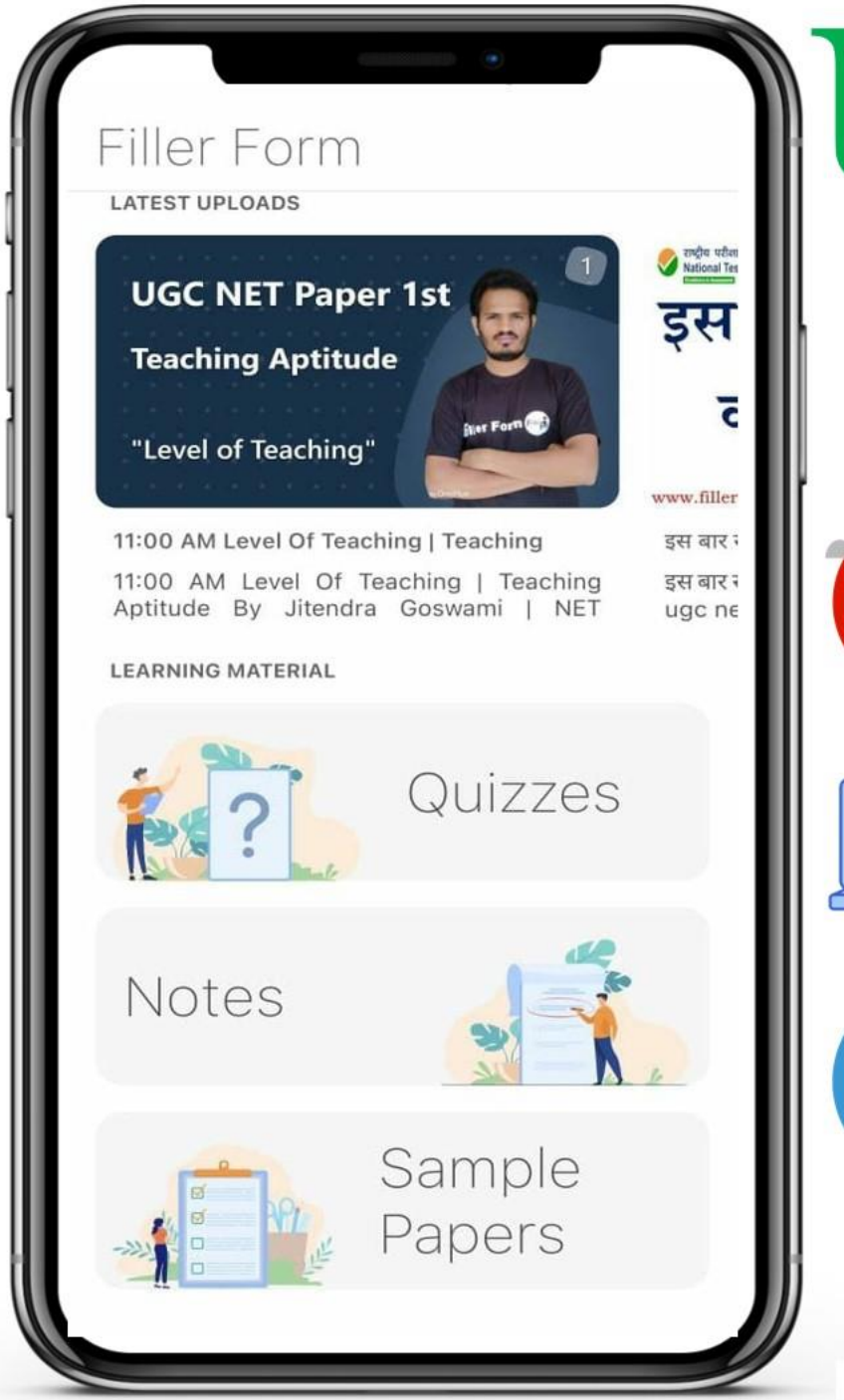

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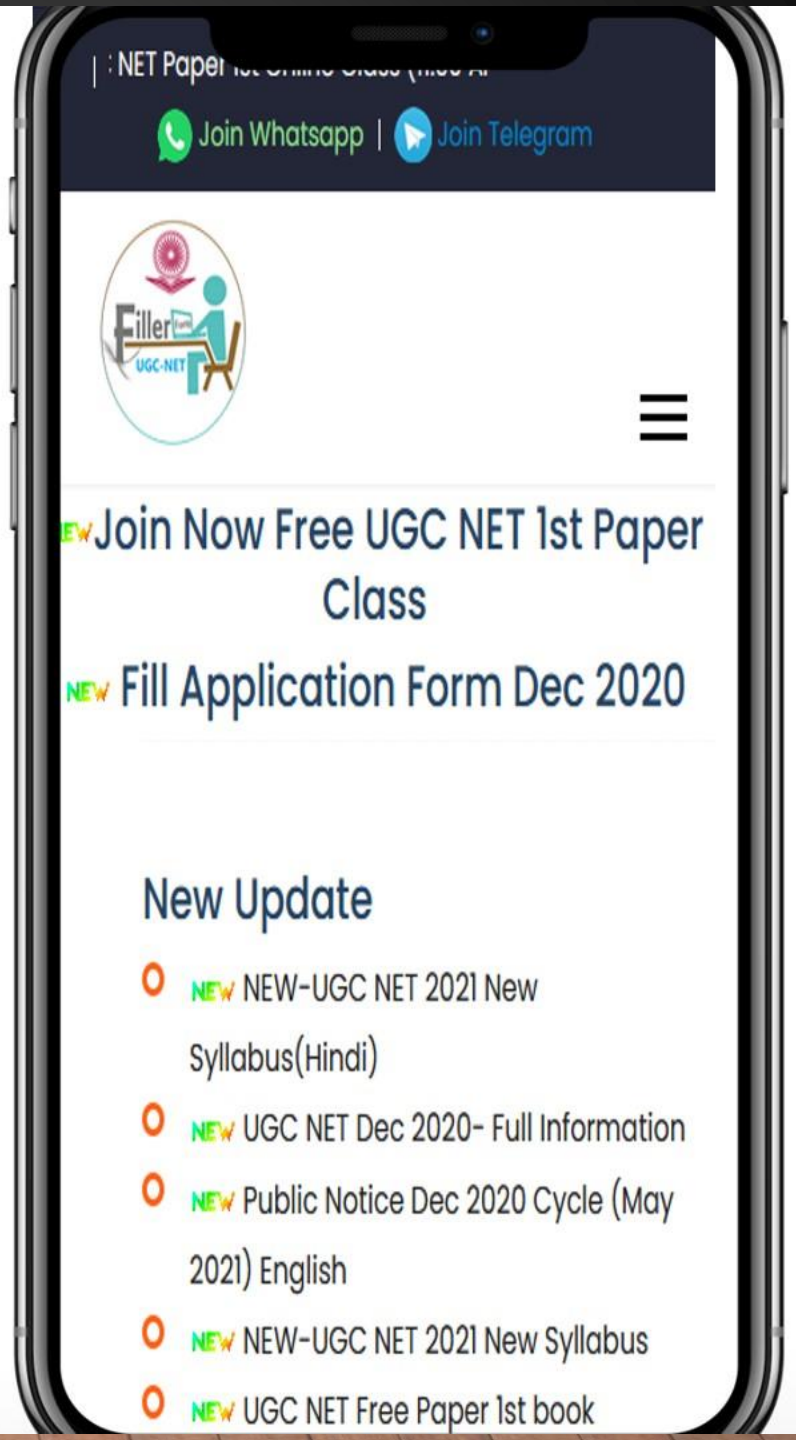

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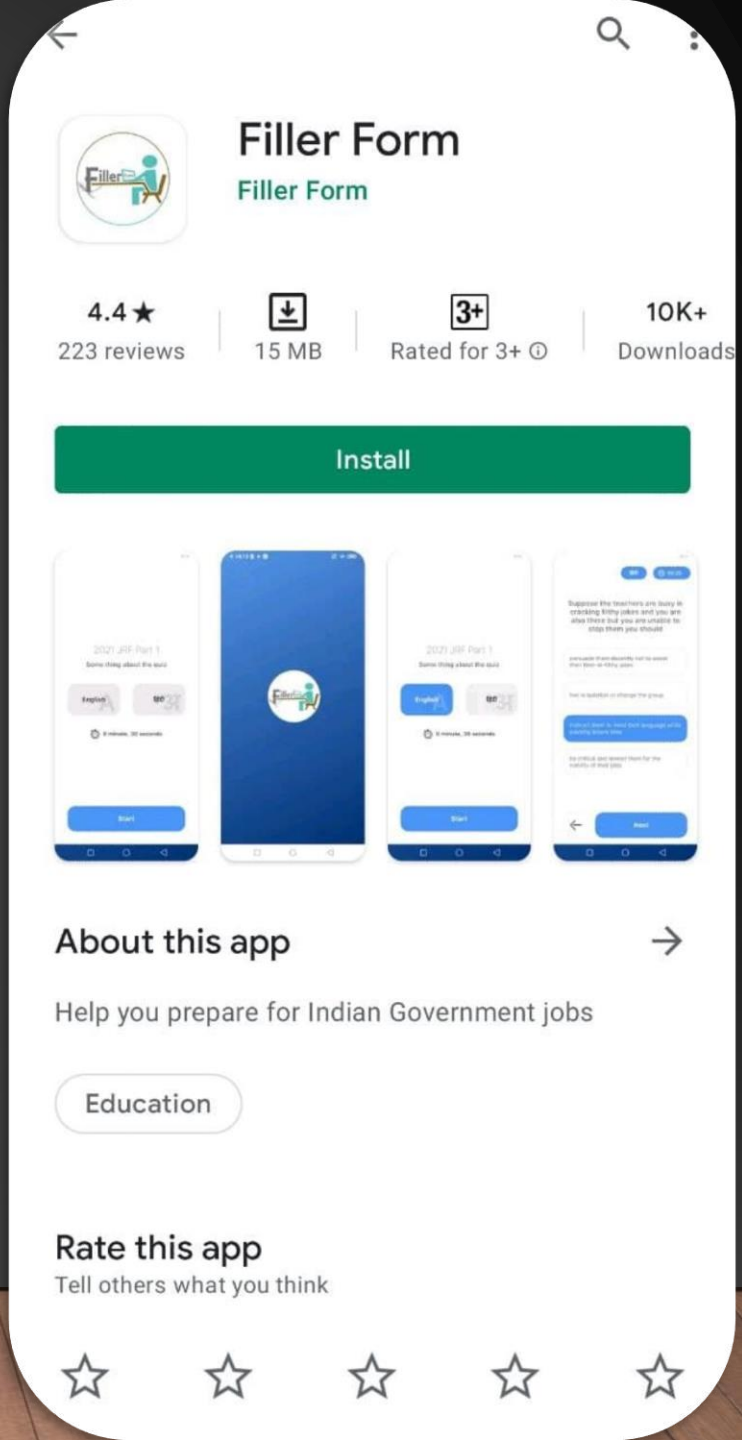

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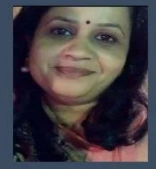
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Don't forgot to keep in touch! Send me your fun videos lol.
- Olivia Wilson -
Cheers to your next adventure!
- Reese Miller -
Have a fun vacation! You deserve it
- Avery Davis -
Here's to the next adventure! Thanks for the memories! Love you!
- Juliana Silva-

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Unit-II **Research Aptitude**

- Research: Meaning, Types, and Characteristics, Positivism and Post-positivistic approach to research.
- Methods of Research: Experimental, Descriptive, Historical, Qualitative and Quantitative methods.
- Steps of Research.
- Thesis and Article writing: Format and styles of referencing.
- Application of ICT in research.
- Research ethics.

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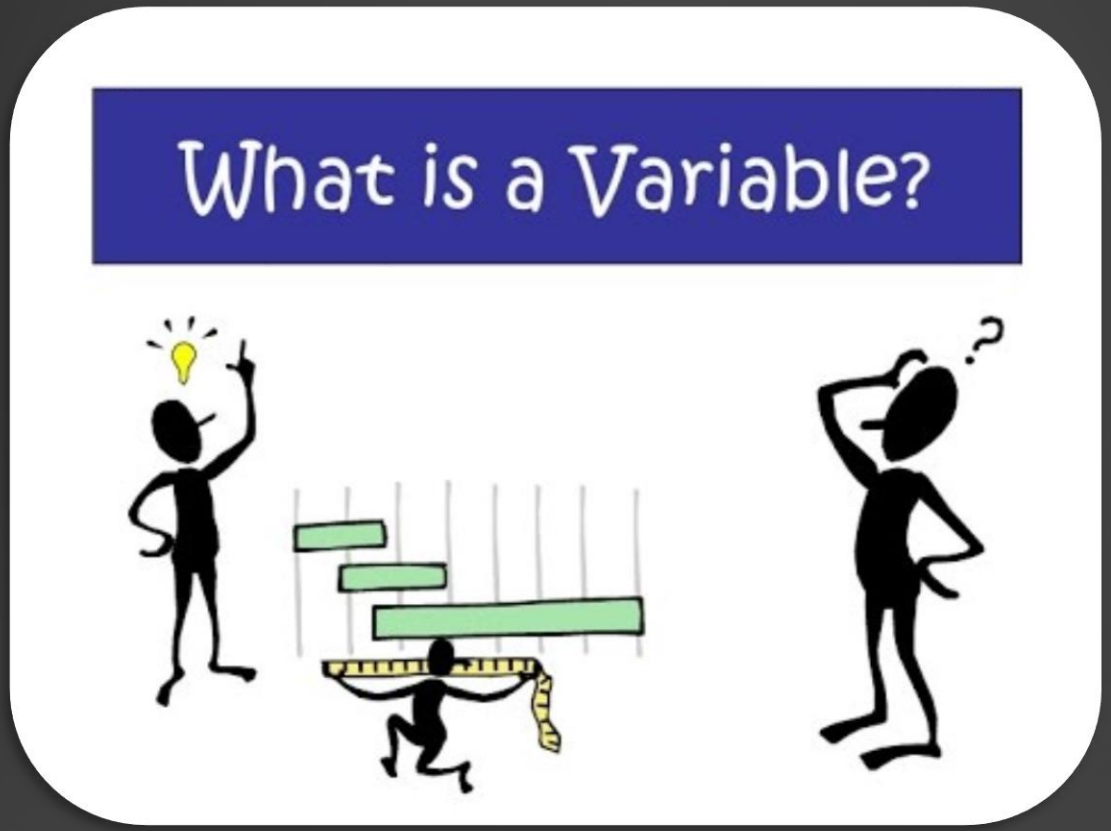
Variables

चर



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1. A variable in research simply refers to a person, place, thing, or phenomenon that you are trying to measure in some way.
2. Variable is the central idea in research
3. A variable is define as anything that varies or changes in value.

- अनुसंधान में एक चर केवल एक व्यक्ति, स्थान, चीज़ या घटना को संदर्भित करता है जिसे आप किसी तरह से मापने की कोशिश कर रहे हैं।
- चर अनुसंधान में केंद्रीय विचार है
- एक चर को किसी भी चीज़ के रूप में परिभाषित किया जाता है जो मूल्य में बदलता है या बदलता है।

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Type of Variables

1. Independent
2. Dependent variables

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INDEPENDENT VARIABLE

VARIABLE THAT IS CHANGED

Amount of Water

DEPENDENT VARIABLE

VARIABLE AFFECTED BY THE CHANGE

Size of Plant
Number of Leaves
Living or Dead?

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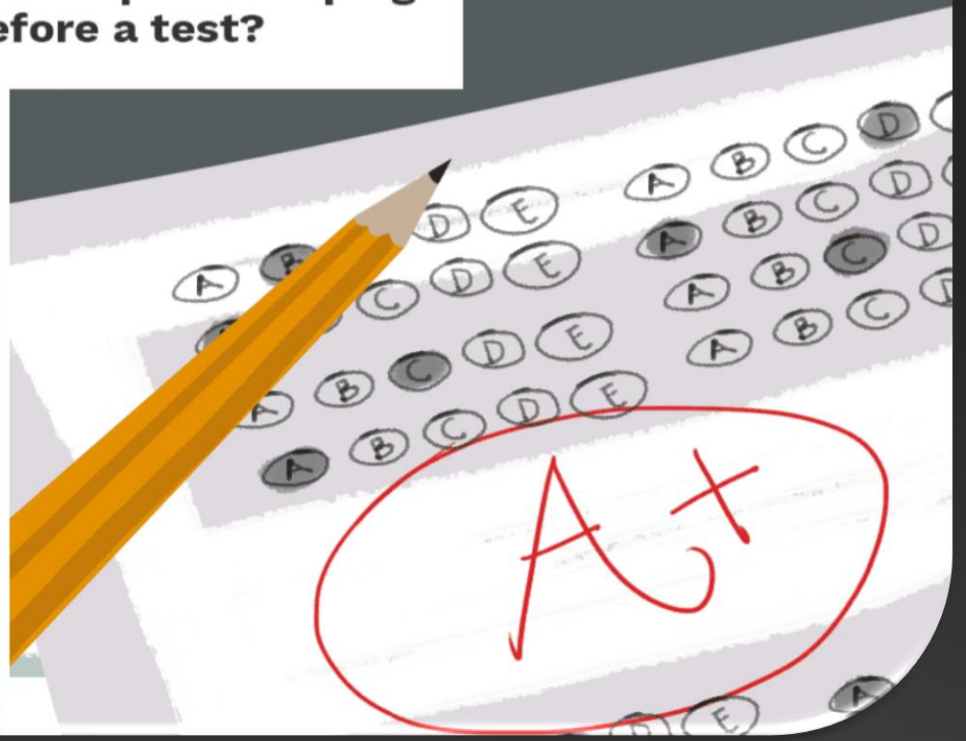
Independent Variables	Dependent Variables

Experiment: Are test scores impacted by the amount of time spent sleeping the night before a test?



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Independent variables

1. It is the variable manipulated by the researcher in an experiment.
2. We can changes
3. Know as Stimulus Variables

- यह एक प्रयोग में शोधकर्ता द्वारा हेरफेर किया गया चर है।
- हम बदल सकते हैं
- स्टिमुलस वेरिएबल्स के रूप में जानें

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Dependent variables

1. It is the variable that changes as a results of changes made on the independent variable
2. It does not influence or affect another variable of the system
3. We can’t changes , depend on independent variable

- ✓ यह वह चर है जो स्वतंत्र चर पर किए गए परिवर्तनों के परिणामस्वरूप बदलता है
- ✓ यह सिस्टम के किसी अन्य चर को प्रभावित या प्रभावित नहीं करता है
- ✓ हम बदल नहीं सकते, स्वतंत्र चर पर निर्भर हैं

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Independent vs dependent variables

स्वतंत्र and निर्भर चर

1. independent variable (the one you think might be the cause) and then measure the dependent variable (the one you think might be the effect) to find out what this effect might be.

2. स्वतंत्र चर (आपके विचार से इसका कारण हो सकता है) और फिर आश्रित चर को मापें (आप जो सोचते हैं वह प्रभाव हो सकता है) यह पता लगाने के लिए कि यह प्रभाव क्या हो सकता है।

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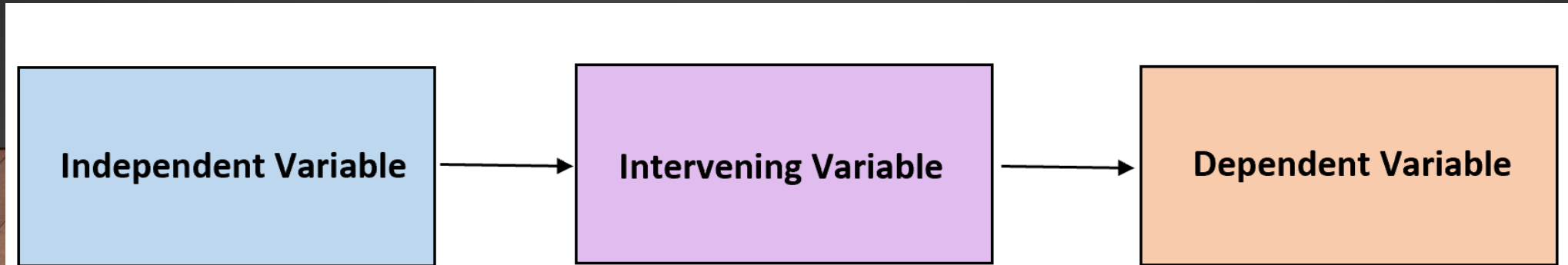
Intervening variables

हस्तक्षेप चर

1. It is a hypothetical variable used to explain casual links between other variable
2. These are variables through which one variables affects another variables

- यह एक काल्पनिक चर है जिसका उपयोग अन्य चर के बीच आकस्मिक लिंक को समझाने के लिए किया जाता है
- ये वे चर हैं जिनके माध्यम से एक चर दूसरे चर को प्रभावित करता है



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Extraneous variables

बाहरी चर

1. These are variable which have an effect on the dependent variables , but are not part of the system.
2. There can be many factored or variables that may affect the outcome.
3. These variables are termed as extraneous variables

- ये वेरिएबल हैं जिनका आश्रित चर पर प्रभाव पड़ता है, लेकिन वे सिस्टम का हिस्सा नहीं हैं।
- कई कारक या चर हो सकते हैं जो परिणाम को प्रभावित कर सकते हैं।
- इन चरों को बाह्य चर कहा जाता है

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Active vs Attributed variables

सक्रिय और विशेषता चर

1. Active- Changed ,control of Researcher

(variable is a variable that can be manipulated.

Active variable are also called experimental variables)

2.Attributed- Cant changed, Not control of Researcher

Cant be manipulated

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Constant Variable स्थिर- it is have only one value

eg- tree

Dichotomous Variable दिचोतोमोउस – they have two category

Eg- Man and female

Polytomous Variables- have one and more then category

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Continuous Variable

1. They are numeric variables that have an infinite number of value between any two values.

For eg- date and time

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Measuring Variable

मापने

1. Nominal Scale
2. Ordinal Scale
3. Interval Scale
4. Ratio Scale

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Nominal Scale

नाममात्र

Variable measured on a nominal scale may have one , two or more sub-categories depending upon the extent of variation

नाममात्र पैमाने पर मापा गया चर में भिन्नता की सीमा के आधार पर एक, दो या अधिक उप-श्रेणियां हो सकती हैं

Eg- Gender

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Ordinal Scale

क्रमवाचक

The ordinal scale place events on order.

It is used for variables which can be categorized as well as ranked

क्रमिक पैमाने पर घटनाओं को क्रम में रखता है।

इसका उपयोग वेरिएबल्स के लिए किया जाता है जिन्हें वर्गीकृत किया जा सकता है और साथ ही रैंक किया जा सकता है

For eg , exam number

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Interval Scale

मध्यान्तर

- ✓ It is used for variables involving quantity which can be categorized ranked as well as can be expressed in increment
- ✓ The scale may either be numeric or semantic formats
- इसका उपयोग उन चरों के लिए किया जाता है जिनमें मात्रा शामिल होती है जिसे श्रेणीबद्ध किया जा सकता है और साथ ही वृद्धि में व्यक्त किया जा सकता है
- पैमाना या तो संख्यात्मक या सिमेंटिक प्रारूप हो सकता है

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Ratio Scale

मध्यान्तर

- ✓ It is the highest level of measurement scales
- ✓ Ratio scales allow the researcher to compare both differences in score and relative magnitude of scores

यह मापन पैमानों का उच्चतम स्तर है

अनुपात पैमाना शोधकर्ता को स्कोर में अंतर और स्कोर के सापेक्ष परिमाण दोनों की तुलना करने की अनुमति देता है

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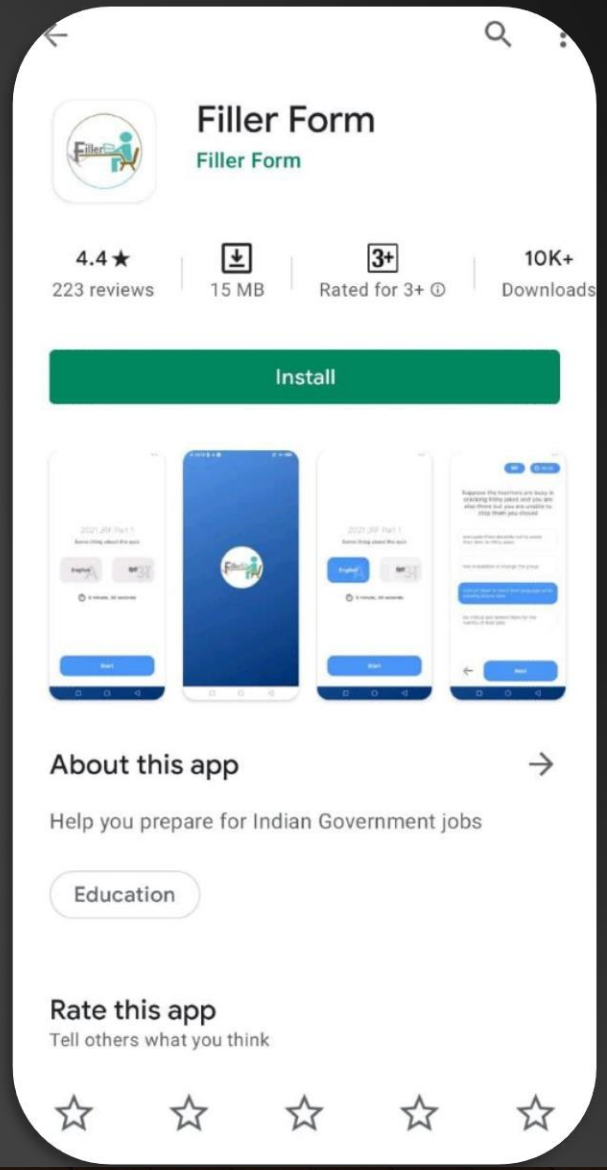

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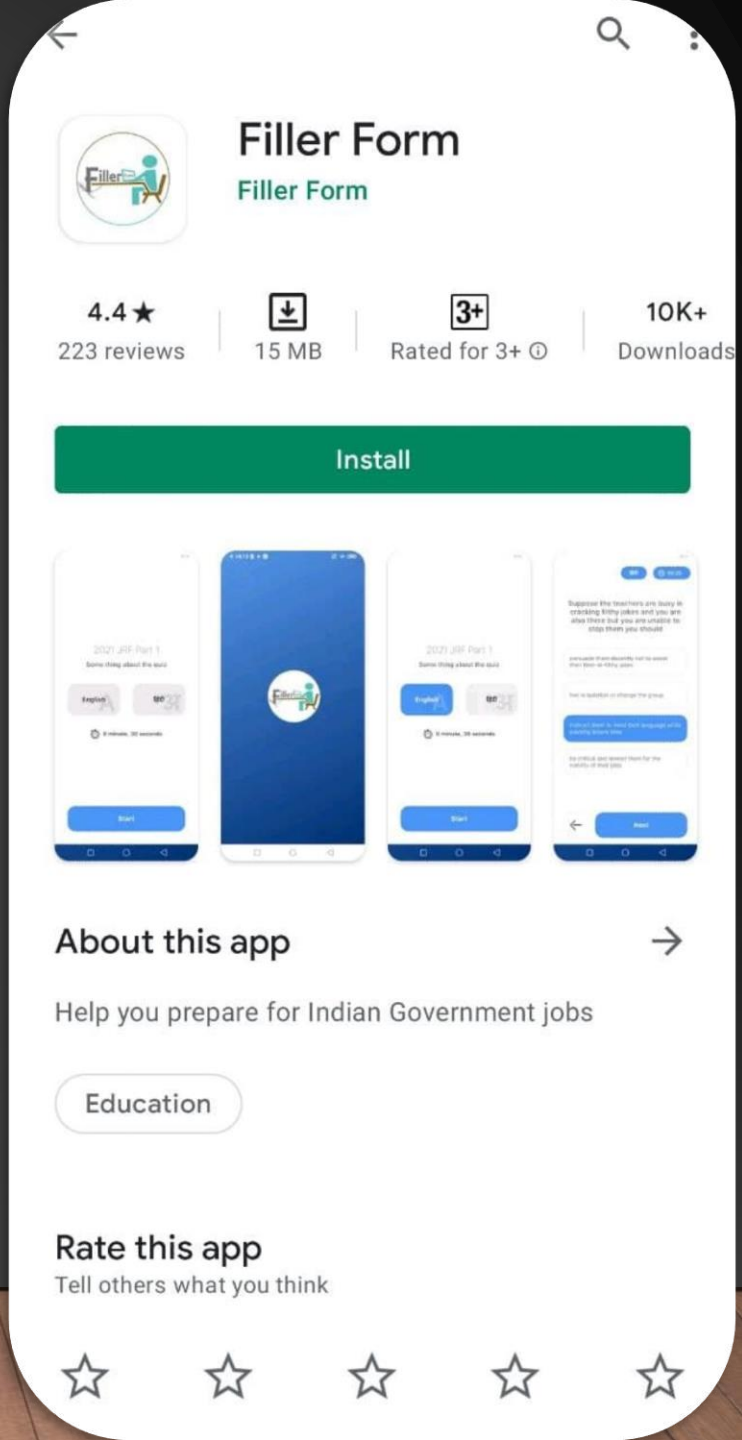

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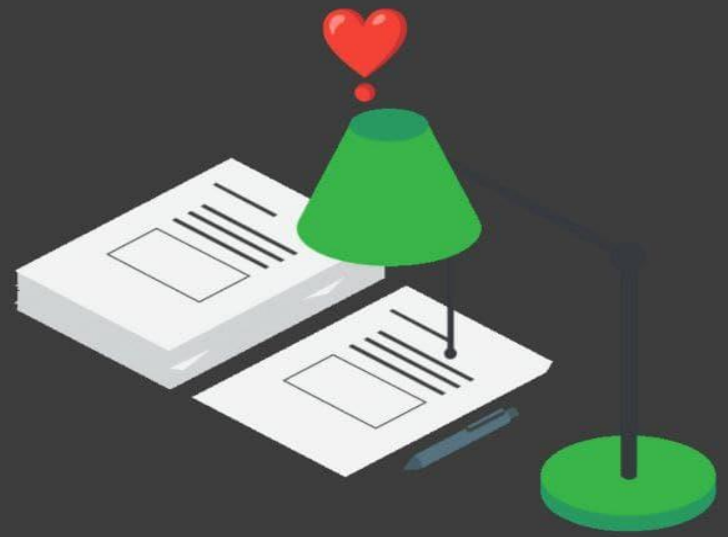

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