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# Free Batch Dec Exam UGC NET 2022



## UGC NET JRF



Free Notes



Live Class



MCQ+PYQ



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## Free Notes



## PYQ with Ans



## 100+ Mock Test

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UGC NET Paper 1st

Teaching Aptitude

"Level of Teaching"



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11:00 AM Level Of Teaching | Teaching

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Aptitude By Jitendra Goswami | NET

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LEARNING MATERIAL



Quizzes



Notes

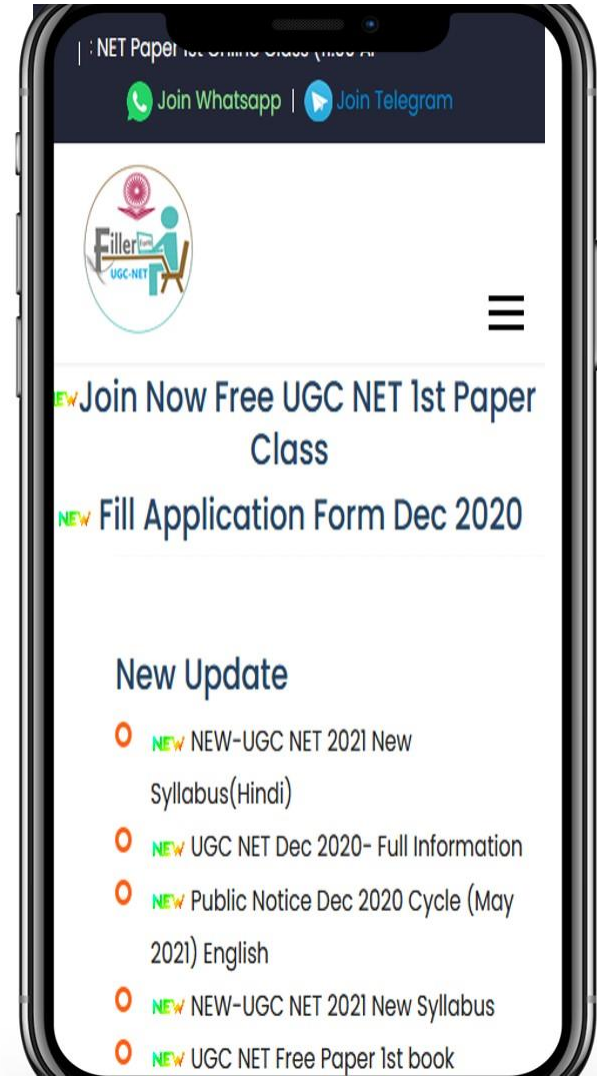


Sample  
Papers

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# नया बैच प्रारंभ

October

17

## UGC NET Dec 2022



09:00 AM

MCQ Class



12:00 PM

Math, DI Class



11:00 AM

Paper 1st



02:00 PM

ICT Class

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lecture 8 (9/10) class @-null  
Null hypothesis - to be tested and proved  
(which others believe but you don't)  
it says No difference (Hypothesis is -ve)  
denoted by  $(H_0)$  (No observed effect) (can be used)  
Alternative hypothesis - when there is a relation  
between variable  $\{A \leftrightarrow B\}$   $\{B \times Y\}$   $\{Y \times B\}$   
Observed effect (this is researcher's  
perception which he want to prove)  
 $(B \leftrightarrow A)$   $(H_1)$



R.A. Fisher

### Types of Hypothesis

Null	Alternate
No relation	Has relation
No change	change
Zero ( $H_0$ )	1. ( $H_1$ )
Coffee $\times$ Sleep	Coffee $\uparrow$ Sleep $\downarrow$
(Always tested) Challenged	To be proved.
General	more Specific
Directional hypothesis	non Directional hypothesis
one tail $\mu > \mu_0$	two tail $\mu \neq \mu_0$



→ the Pelican

innocent	Guilty
Judges say	No error
type 1	type 2
	None

Right Reject - level of significance  
Right Accept - level of confidence

Conference | Symposium & workshop Seminar



Null Hypo testing	
DATE: / /	
Type 1	Type 2
Fc Male	(Accepting false)
Pregnant or ↓ you are not pregnant	or male Pregnant
(Innocent)	
Rejecting true	
False true	False -ve
$\alpha$ error	$\beta$ error
Equal level of significance	Power of test
Rejecting null Hypo when it is true	not rejecting null hypothesis when alternative Hypo is true
Alternate Hypo is Accepted	





Hypothesis testing means testing 2 mutual statement  
gives direction to a research (validity of a hypothesis  
is unknown before test) (it must be general's and  
Descriptive hypothesis - Describe <sup>relation</sup> A as it is  
Explanatory hypothesis - cause effect of relation  
(Analogical) (basis of similarities)  
working u -> Sometimes certain facts cannot be  
described not tested in such case the investigation is done  
working hypothesis helps in starting investigation though it  
is inadequate



- APA (Int'l & Ref)  
(American Psychological Association)
- Titles are italic (i/c)
  - Last Name of Author is used.
  - Author Name & yr of Publication used (int'l)
  - Comma are used
  - Used in Social Sci. Subject
  - Alphabetical index

Author 1, Author 2, Author 3, Title  
of article, Title of Periodical,  
Volume No (circled), Page, DOI

Footnote - Ital - italic (same)  
Same author & book & journal in  
immediately preceding reference

ip. Cit.: latin word 'opus citatum'  
means work cited (reference listed earlier)

Cit.: loco citato means place cited  
Footnote & endnote use to repeat  
title & Page No.

et al.: (ref to and others)  
(latin lang) (when 3 or more authors)

- Chicago style  
(Humanities / Sci / Social Sci)  
aka Turabian style  
Business / History / English  
(Footnote or Endnote + Bibliography)



Full Name, source, title,  
Publication, volume, Page No.  
(No parentheses)

Bibliography is not mandatory  
(last name, title, Pg No.)

Unique Number citation  
Vancouver style

All India Council of Technical Edu (AICTE)  
1963 - advisory Body 1967 (Regulatory status)  
(I.O - Delhi)

UGC - University Grants Commission (Reg. Dec.)  
Statutory Status by Act of Parliament 1953  
(I.O - New Delhi) (1986)

ICSSR - Indian Council of Social  
Sci & Research (1969) national Body  
Hd. New Delhi

ICHR - Indian Council of Historical Research  
1972 (Autonomous) Hd. New Delhi  
under Society Registration Act 1860.



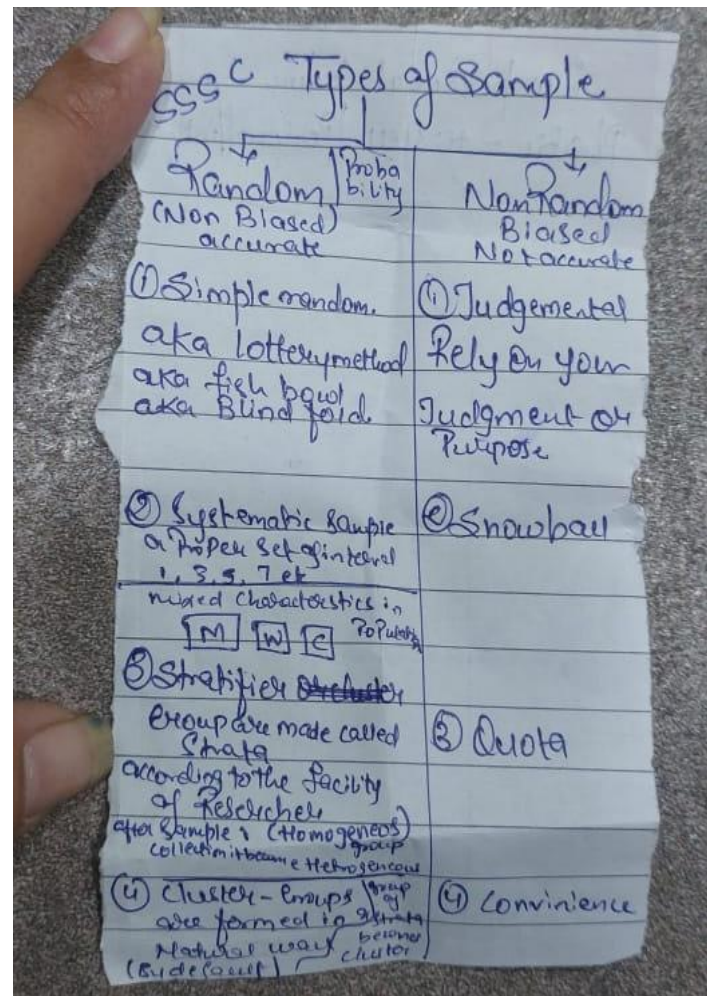
(intentional) Styles: → <sup>swamp</sup> <sup>idea</sup>  
 MLA (modern lang. Association)  
 \*Title case underlining with <sup>capital</sup>  
 Full Name of Author is used  
 Author Name & Page no. are used (intentional)  
 (No use of comma) / used in Humanities  
 Author: Last Name "Title of  
 Article: Title of journal: issue no.  
 Page: Name of database: web.  
 Date of Access: <sup>with year</sup>

[Page: thetical means (2)]  
 Journal Article - Any Time / Any Topic  
 Research Article - Factual (old case)  
 Conference Paper - Own topic / Review Paper  
 Council Architect 1972 <sup>Statutory Body</sup> <sup>HO new delhi</sup>  
 ICPR - Indian Council of Phil. <sup>1950</sup>  
 Research 1977 Apex Body under  
 Societies Registration Act 1860.  
 MCI - medical Council of India  
 (25 Sep 2020) (National medical  
 commission)  
 now became NMC <sup>HO new delhi</sup>  
 National medical commission

Research Report Format  
 ① Title Page - Research Project Title  
 Researcher Name  
 Institute  
 Date of Publication  
 ② Table of content  
 contents - Page  
 Chp I / Chp II / Chp III / Summary / Ref  
 ③ Appendices (Questionnaire)  
 ④ List of Table (Table No. Title. Page)  
 ⑤ List of Figures (Figure No. Title. Page)  
 ⑥ List of Ref. (Cases used in Research)  
 ⑦ Bibliography - Case the <sup>citation</sup> <sup>book/letter</sup>  
 (studied)



Ethics Greek word Ethics = 13  
Customs / shows more  
are not fixed can be changed  
by Person / time / place  
→ Deontological Approach Ethics are  
Use of a universal code it's  
an absolutistic approach  
Honesty is the best Policy  
→ Spec Scepticism Approach  
not universal it's relative to  
One's own culture & time  
→ Utilitarianism Approach  
if expected benefits > expected Ris  
of its Ethical  
of Ends & imp not means





Qualitative tool - Google drive / <sup>Drop</sup>Box  
ATLAS.ti / SPSS text analysis / ①  
NVivo / Transana / MaxQDA  
(journalist) - personal  
writing tools - Typewrite / Lipstick  
(combined writers) <sup>Handwritten & typed</sup>  
Report writing  
LaTeX / <sup>Who writes</sup> Typeset.io  
Plagiarism check  
Plag scan. Small SEO tool ②



Experimental - independent variable is manipulated

Ex post - independent variable is selected

Ex post - No control over situation

Experimental - complete control

Ex post facto - Post oriented

(to find out cause of something)



① **Exploratory Research** - 1st step.  
 when topic is not clear or new  
 address what, why & how  
 Steps in generating Hypothesis  
 Dismissibility of Ideas

② **Descriptive Research** - Self explanatory  
 describe as it is - No manipulation  
 → when, what, where, when, how  
 → use survey method & No control over variable  
 (Type of Non-Experimental Research)  
 Exploratory vs Descriptive vs Explanatory  
 Ambiguous Prob.      Aware of Prob.      aka casual Prob. clearly defined cause's effect

③ **Correlational Research** - (Relation between two variables)  
 (No cause and effect) (goes -ve to +ve)  
 ↑ money ↑ car    ↑ tests in testing hypothesis (- to +)  
 -ve education ↑ crime ↓    No correlation weight & study

④ **Experimental Research** - Scientific approach  
 Qualitative Nature - manipulation is done  
 in independent variable - observed effect on depend.

⑤ **Explanatory** - answers how & why  
 Reason | cause | effect  
 Exploratory → Descriptive → Explanatory

⑥ **Basic / Fundamental / Pure**  
 Expansion of knowledge  
 Generate New Theories  
 (Theories cannot be applied immediately)  
 Rule based  
 Survival

⑦ **Applied Research** - Practical Application  
 Industry | Expertise required  
 Scientific Nature | aka Market Research  
 Journal Research

⑧ **Action Research** - Improvement  
 Quick results | local Prob.  
 cyclic Nature | Plan, act, observe, reflect, PACUR  
 its a type of Applied Research  
 Given by Kurt Lewin (Not much experts & resources required)

⑨ **Post-facto Research** - No variable  
 Manipulation | talks about cause effect  
 Post study / (Type of Non-Experimental Research)  
 Goes after the fact aka accidental Research  
 Historical - long Post (only study of past)  
 Use of Primary Sources  
 Discipline Nature  
 (Go and do research, No use of internet)  
 Criticism allowed





Analytical - critical evaluation  
 Use facts and information already available  
 (this type of Non experimental)

Experimental Research -  
 The Experiment - 100%  
 Quasi: experimental - Half (incomplete)

(Control) (Manipulation) (Observation)  
 (Randomisation)

Comparative Research - see similarities  
 or differences / two or more samples  
 (Non-experimental)

Exploratory - when topic is new  
 Prob is not clear, helps generate hypotheses  
 when, what, why, how | causes effect

Non experimental | Used at initial level  
 of Research

Conceptual or Empirical - abstract concept  
 New theory or may be existing theory expansion  
 only on own experience with solid evidence

Conceptual or Empirical - abstract concept  
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Mixed Research: Quantitative + Qualitative

Cross Sectional	Longitudinal
test all groups at once	test some group for long time.
eg: Study of female kids with schizophrenia	eg: 10 females to study how brain / memory

Experimental Research -  
 The Experiment - 100%  
 Quasi: experimental - Half (incomplete)

(Control) (Manipulation) (Observation)  
 (Randomisation)

→ independent - manipulated, all other are constant  
 → intervening variable - link IV & DV  
 → Extraneous variable - external but controlled

Quasi: experimental  
 Control / manipulate / observe Random X  
 aka Post hoc after the fact  
 and can be used again (incomplete Research)

Non experimental study also include  
 cohort study - common feature study group

Placebo Design - Psychological  
 (Cine Sugar Pill to reflect daily) he becomes ok Now



जिसने भी खुद को खर्च  
किया है,  
DUNIYA ने उसी को  
GOOGLE पर SEARCH  
किया है।



2



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**Just focus on you  
aim**



Alight Motion

**this universe will  
show the way  
where you want to  
go**