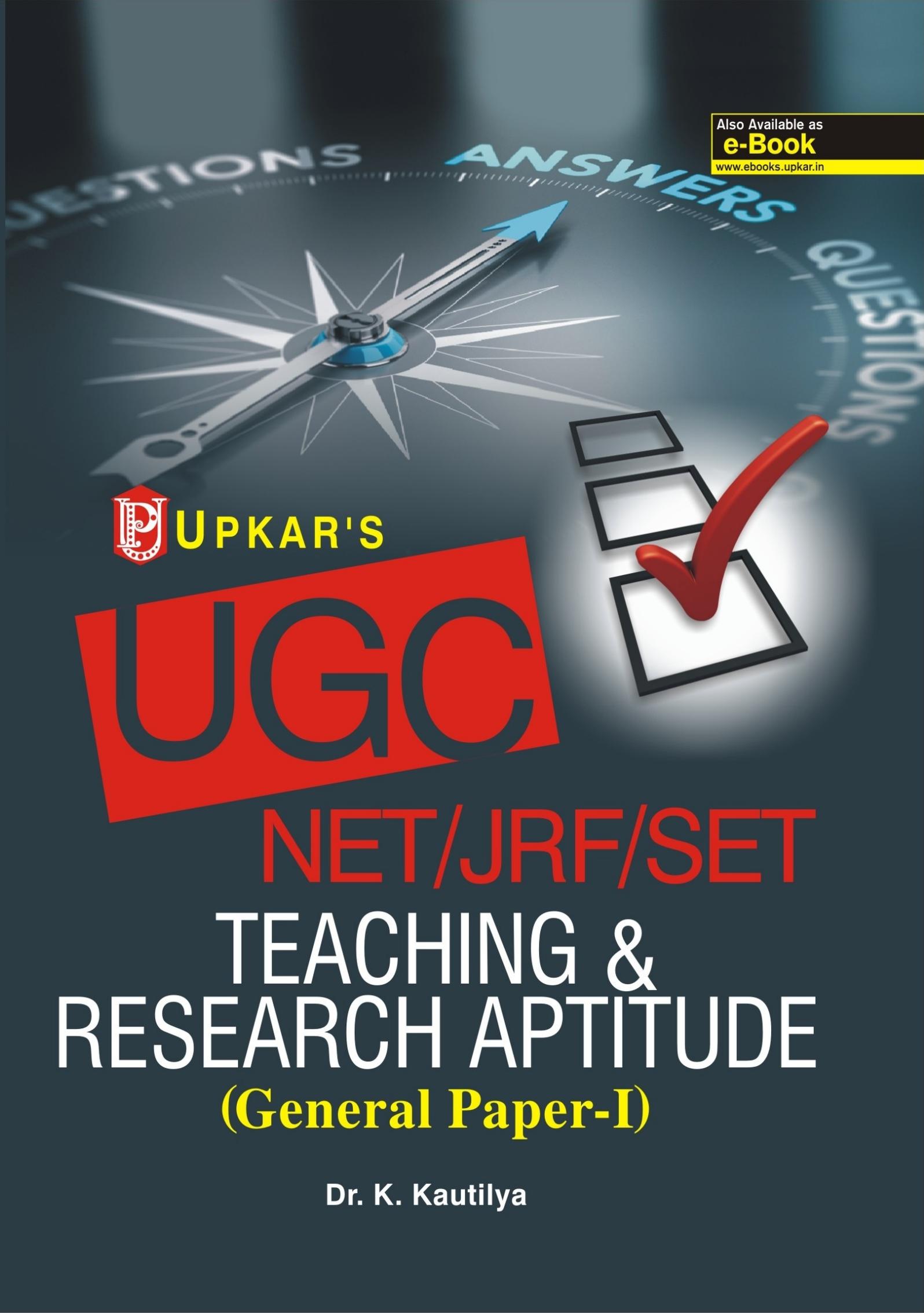


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**UPKAR'S**

**UGC**

**NET/JRF/SET**

**TEACHING &  
RESEARCH APTITUDE**  
**(General Paper-I)**

Dr. K. Kautilya

 **UPKAR'S**  
**UGC**  
**NET/JRF/SET**  
**Teaching &**  
**Research Aptitude**  
(General Paper-I)  
(According to the Syllabus)

*By*  
Dr. K. Kautilya

**2018**

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## General Information

On behalf of UGC, the Central Board of Secondary Education announces holding of the **National Eligibility Test (NET)** in June/Dec., for determining the eligibility of Indian Nationals for the Eligibility for Assistant Professor only or **Junior Research Fellowships (JRF)** and **Eligibility for Assistant Professor Both** in Indian Universities and Colleges.

The award of JRF and Eligibility for Assistant Professor both OR Eligibility for Assistant Professor only will depend on the performance of the candidate in **all the three papers of NET**. However, the candidates qualifying exclusively for Assistant Professor will not be considered for award of JRF. Candidates appearing in NET should clearly specify in the prescribed Application Form whether they are applying for both JRF & Eligibility for Assistant Professor both OR only for Eligibility for Assistant Professor. Candidates who qualify the Test for eligibility for Assistant Professor will be governed by the rules and regulations for recruitment of Assistant Professor of the concerned universities/ colleges/state governments, as the case may be.

**The candidates who qualify for the award of Junior Research Fellowship are eligible to pursue research in the subject of their Post Graduation or in a related subject and are also eligible for Assistant Professor. The universities, institutions, IITs and other national organizations may select the JRF awardees for whole time research work in accordance with the procedure prescribed by them.**

Scheduled Castes (SC)/Scheduled Tribes (ST)/Persons with disability (PWD)/Other Backward Classes OBC (Non-creamy Layer), as per the central list of Other Backward Classes available on National Commission for Backward Classes (NCBC), Government of India website : [www.ncbc.nic.in](http://www.ncbc.nic.in), candidates will be given such special concession as may be decided by the UGC.

### JUNIOR RESEARCH FELLOWSHIP

Candidates qualifying for the award of Junior Research Fellowship will be eligible to receive fellowship of UGC under various schemes, subject to their finding placement in universities/IITs/institutions. The validity period of the offer is two years

*w.e.f.* the date of issue of JRF Award Letter. However, in case the candidates who have already joined M. Phil/ Ph.D., the date of commencement of fellowship shall be from the date of declaration of NET result or date of their joining, whichever is later.

### CONDITIONS OF ELIGIBILITY

(i) Candidates who have secured at least 55% marks (without rounding off) in Master's Degree (or) equivalent examination from universities/institutions recognized by UGC in Humanities (including languages) and Social Science, Computer Science & Applications, Electronic Science etc. are eligible for this Test. The Other Backward Classes (OBC) belonging to non-creamy layer/Scheduled Caste (SC)/Scheduled Tribes (ST)/Persons with disability (PWD) category candidates who have secured at least 50% marks (without rounding off) in Master's degree or equivalent examination are eligible for this Test.

(ii) Candidates who have appeared **OR** will be appearing at the qualifying Master's degree (final year) examination and whose result is still awaited **OR** candidates whose qualifying examinations have been delayed may also apply for this Test. However, such candidates will be admitted provisionally and shall be considered eligible for award of JRF/Eligibility for Assistant Professor only after they have passed their Master's degree examination or equivalent with at least 55% marks (50% marks in case of OBC (Non-creamy layer)/ SC/ST/PWD (Persons with disability) category candidates. **Such candidates must complete their P.G. degree/examination within two years from the date of NET result with required percentage of marks, failing which they will be treated as disqualified.**

(iii) The Ph.D. degree holders whose Master's level examination had been completed by 19th September, 1991 (irrespective of date of declaration of result) shall be eligible for a relaxation of 5% in aggregate marks (*i.e.*, from 55% to 50%) for appearing in NET.

(iv) **Candidates are advised to appear in the subject of their Post Graduation only.** The candidates whose Post Graduation subject is not covered in the list of NET subjects, may appear in a related subject.

(v) **Candidates are neither required to send any certificates/documents in support of their eligibility**

**nor printout of their Application Form (Confirmation Page) to CBSE.** However the candidates, in their own interest, must satisfy themselves about their eligibility for the Test. In the event of any ineligibility being detected by the UGC/CBSE at any stage, their candidature will be cancelled and they shall be liable for legal action.

(vi) Candidates having post-graduate diploma/certificate awarded by Indian University/Institute or foreign degree/diploma/certificate awarded by the foreign University/Institute should in their own interest, ascertain the equivalence of their diploma/degree/certificate with Master's degree of recognized Indian universities from Association of Indian Universities (AIU), New Delhi. ( www.aiuweb.org )

### AGE LIMIT & RELAXATION

#### (a) FOR JUNIOR RESEARCH FELLOWSHIP :

Not more than 28 years as on stipulated date. A relaxation upto 5 years is provided to the candidates belonging to OBC (Non-creamy layer, as per the Central list of OBC available on website : www.ncbc.nic.in)/SC/ST/PWD categories and to women applicants. Relaxation will also be provided to the candidates having research experience, limited to the period spent on research in the relevant/related subject of Post Graduation degree, subject to a maximum of 5 years, on production of a certificate from appropriate authority. Three years' relaxation in age will be permissible to the candidates possessing LL.M. Degree. Total age relaxation on the above ground(s) shall not exceed five years under any circumstances.

(b) **Assistant Professor :** There is no upper age limit for applying for eligibility for Assistant Professor.

### EXEMPTION (ELIGIBILITY FOR ASSISTANT PROFESSOR)

(i) NET/SLET/SET shall remain the minimum eligibility condition for recruitment and appointment of Assistant Professors in Universities/Colleges/Institutions. Provided however, that candidates, who are or have been awarded a Ph. D. Degree in accordance with the University Grants Commission (Minimum Standards and Procedure for Award of Ph.D. Degree) Regulations, 2009, shall be exempted from the requirement of the minimum eligibility condition of NET/SLET/SET for recruitment and appointment of Assistant Professor or equivalent positions in Universities/Colleges/Institutions.

(ii) The candidates who have passed the UGC/CSIR JRF examination prior to 1989 are also exempted from appearing in NET.

(iii) **For SET Candidates:** The candidates who have cleared the State Eligibility Test (SET) accredited by UGC for eligibility for Assistant Professor held prior to 1st Dec. 2002, are exempted from appearing in NET, being eligible to apply for Assistant Professor anywhere in India. For SET held from 1st Dec. 2002 onwards, the

qualified candidates are eligible to apply for the post of Assistant Professor only in the universities/ colleges situated in the state from where they have cleared their SET.

### SCHEME AND SYLLABUS OF TEST

(i) The Test will consist of three papers. All the three papers will consist of only objective type questions and will be held on the day of examination in two separate sessions as under :

Session	Paper	Marks	Duration
First	I	50 × 2 = 100	1 $\frac{1}{4}$ Hours (9.30 A.M. to 10.45 A.M.) IST
First	II	50 × 2 = 100	1 $\frac{1}{4}$ Hours (11.15 A.M. to 12.30 P.M.) IST
Second	III	75 × 2 = 150	2 $\frac{1}{2}$ Hours (2.00 P.M. to 4.30 P.M.) IST

**Paper-I** shall be of general nature, intended to assess the teaching/research aptitude of the candidate. It will primarily be designed to test reasoning ability, comprehension, divergent thinking and general awareness of the candidate. Sixty (60) multiple choice questions of two marks each will be given, out of which the candidate would be required to answer any fifty (50). In the event of the candidate attempted more than fifty questions, the first fifty questions attempted by the candidate would be evaluated.

**Paper-II** shall consist of 50 objective type compulsory questions based on the subject selected by the candidate. Each question will carry 2 marks.

**Paper-III** will consist of 75 objective type compulsory questions from the subject selected by the candidate. Each question will carry 2 marks.

All the questions of Paper-II and Paper-III will be compulsory, covering entire syllabus (including all electives, without options).

The candidates will have to mark their responses for questions Paper-I, II and III on the Optical Mark Reader (OMR) sheet provided alongwith the Test Booklet.

### PROCEDURE & CRITERIA FOR DECLARATION OF RESULT

This will comprise of following steps :

**Step I :** Minimum marks to be obtained in NET for considering a candidate for the award of JRF and eligibility for Assistant Professor :

The candidates are required to obtain minimum marks separately in Paper-I, Paper-II and Paper-III as given below —

Category	Minimum Marks (%) to be Obtained		
	Paper-I	Paper-II	Paper-III
General	40 (40%)	40 (40%)	75 (50%)
OBC (Non-creamy layer)/PWD/SC/ST	35 (35%)	35 (35%)	60 (40%)

**Step II :** Amongst those candidates who have cleared step I, a merit list will be prepared subjectwise and categorywise using the aggregate marks of all the three papers secured by such candidates.

**Step III :** Top 15% candidates (for each subject and category), from the merit list mentioned under step II, will be declared NET qualified for eligibility for Assistant Professor only.

**Step IV :** A separate merit list for the award of JRF will be prepared from amongst the NET qualified candidates figuring in the merit list prepared under step III.

**It may be noted that the above qualifying criteria decided by UGC/CBSE is final and binding.**

**FOR PERSONS WITH DISABILITY (INCLUDING VISUALLY CHALLENGED CANDIDATES) HAVING 40% OR MORE DISABILITY**

(i) Twenty five minutes compensatory time shall be provided for paper-I and Paper-II separately. For paper-III, fifty minutes compensatory time shall be provided. These candidates, on their request, will also be provided

the services of a scribe who would be a graduate in a subject other than that of the candidate. **CBSE will also provide the Test Booklets of Paper-I, II & III in Braille in those subjects only which are printed in English or English and Hindi along with usual Test Booklets as provided to other candidates.**

(ii) The **Persons with Disability (Physically Challenged)** candidates who are not in a position to write in their own hand-writing can also avail the services of scribe by making prior request (at least one week before the date of UGC-NET) in writing to the concerned Centre Superintendent. Compensatory time and facility of scribe would not be provided to other Persons with Disability (Physically Challenged) candidates who have disability of less than 40%.

(iii) The candidate has the discretion of opting for his/her own scribe or has to request the concerned Centre Superintendent for the same in writing at least one week in advance of the test. In such instances the candidate is allowed to meet the scribe a day before the examination so as to verify whether the scribe is suitable or not.

(iv) The candidates with disability should fill in the type and percentages of disability correctly in the online application form of NET.

**SUBJECT & SYLLABUS OF TEST**

All questions of Paper-II and Paper-III will be compulsory, covering entire syllabus (including all electives, without options).

Syllabi for all NET subjects can be downloaded from the UGC Website [www.ugc.ac.in](http://www.ugc.ac.in) and are also available in the libraries of all Indian Universities. **CBSE will not send the syllabus to individual candidates.**

**SUBJECTS**

The list of NET subjects along with their respective codes is as given below :

<b>Subject Code</b>	<b>Name of the Subject</b>	<b>Subject Code</b>	<b>Name of the Subject</b>
01	Economics	55	Labour Welfare/Personnel Management/ Industrial Relations/Labour and Social Welfare/Human Resource Management
02	Political Science	58	Law
03	Philosophy	59	Library and Information Science
04	Psychology	60	Buddhist, Jaina, Gandhian and Peace Studies
05	Sociology	62	Comparative Study of Religions
06	History	63	Mass Communication and Journalism
07	Anthropology	65	Dance
08	Commerce	66	Museology & Conservation
09	Education	67	Archaeology
10	Social Work	68	Criminology
11	Defence and Strategic Studies	70	Tribal and Regional Language/Literature
12	Home Science	71	Folk Literature
14	Public Administration	72	Comparative Literature
15	Population Studies*	73	Sanskrit Traditional Subjects (including Jyotisha/Sidhanta Jyotisha/Navya Vyakarna/Vyakarna/Mimamsa/Navya Nyaya/Sankhya Yoga/Tulanatmaka Darsana/Shukla Yajurveda/Madhva Vedanta/Dharma Sastra/Sahitya/Purana- Itihasa/Agama/Advaita Vedanta).
16	Hindustani Music (Vocal/Instrumental)	74	Women Studies **
17	Management	79	Visual Arts (including Drawing & Painting/Sculpture Graphics/Applied Art/History of Art)
18	Maithili	80	Geography
19	Bengali	81	Social Medicine & Community Health
20	Hindi	82	Forensic Science
21	Kannada	83	Pali
22	Malayalam	84	Kashmiri
23	Odia	85	Konkani
24	Punjabi	87	Computer Science and Applications
25	Sanskrit	88	Electronic Science
26	Tamil	89	Environmental Sciences
27	Telugu	90	International and Area Studies
28	Urdu	91	Prakrit
29	Arabic	92	Human Rights and Duties
30	English	93	Tourism Administration and Management
31	Linguistics	94	Bodo
32	Chinese	95	Santali
33	Dogri	96	Karnatik Music (Vocal, Instrument, Percussion)
34	Nepali	97	Rabindra Sangeet
35	Manipuri	98	Percussion Instrument
36	Assamese	99	Drama/Theatre
37	Gujarati		
38	Marathi		
39	French		
40	Spanish		
41	Russian		
42	Persian		
43	Rajasthani		
44	German		
45	Japanese		
46	Adult Education//Continuing Education/ Andragogy/Non-Formal Education		
47	Physical Education		
49	Arab Culture and Islamic Studies		
50	Indian Culture		

\* The candidates with Master's Degree in Geography (with specialization in Population Studies) or Mathematics/Statistics are also eligible to appear in the subject 'Population Studies' (Code No. 15).

\*\* The candidates with Master's Degree in Humanities (including languages) and Social Sciences are eligible to appear in the subject 'Women Studies' (Code 74).

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# Syllabus

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The main objective is to assess the teaching and research capabilities of the candidates. Therefore, the test is aimed at assessing the teaching and general/research aptitude as well as their awareness. They are expected to possess and exhibit cognitive abilities. Cognitive abilities include comprehension, analysis, evaluation, understanding the structure of arguments and deductive and inductive reasoning. The candidates are also expected to have a general awareness and knowledge of sources of information. They should be aware of interaction between people, environment and natural resources and their impact on quality of life. The details are given in the following sections—

*Note*— (i) Each section gets equal weightage : five questions and 10 marks from each section.

(ii) Whenever pictorial questions are set for the sighted candidates a passage followed by equal number of questions should be set for the visually handicapped candidates.

## **I. Teaching Aptitude—**

- \* Teaching : Nature, objectives, characteristics and basic requirements.
- \* Learner's characteristics.
- \* Factors affecting teaching.
- \* Methods of teaching.
- \* Teaching aids.
- \* Evaluation systems.

## **II. Research Aptitude—**

- \* Research : Meaning, characteristics and types.
- \* Steps of research.
- \* Methods of research.
- \* Research Ethics.
- \* Paper, article, workshop, seminar, conference and symposium.
- \* Thesis writing : its characteristics and format.

## **III. Reading Comprehension—**

- \* A passage to be set with questions to be answered.

## **IV. Communication—**

- \* Communication : Nature, characteristics, types, barriers and effective classroom communication.

## **V. Reasoning (Including Mathematical)—**

- \* Number series, letter series, codes.
- \* Relationships, classification.

## **VI. Logical Reasoning—**

- \* Understanding the structure of arguments.
- \* Evaluating and distinguishing deductive and inductive reasoning.

- \* Verbal analogies : Word analogy—Applied analogy.
- \* Verbal Classification.
- \* Reasoning Logical Diagrams : Simple diagrammatic relationship, multidigrammatic relationship.
- \* Venn diagram, Analytical Reasoning.

## **VII. Data Interpretation—**

- \* Sources, acquisition and interpretation of data.
- \* Quantitative and qualitative data.
- \* Graphical representation and mapping of data.

## **VIII. Information and Communication Technology (ICT)—**

- \* ICT : meaning, advantages, disadvantages and uses.
- \* General abbreviations and terminology.
- \* Basics of internet and e-mailing.

## **IX. People and Environment—**

- \* People and environment interaction.
- \* Sources of pollution.
- \* Pollutants and their impact on human life, exploitation of natural and energy resources.
- \* Natural hazards and mitigation.

## **X. Higher Education System : Governance, Polity and Administration—**

- \* Structure of the institutions for higher learning and research in India, formal and distance education, professional/technical and general education, value education, governance, polity and administration, concept, institutions and their interactions.
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**Teaching and Research Aptitude**

**(Paper-I)**

**U.G.C.-NET/JRF Exam.**

**(22 January, 2017)**

**Solved Paper**

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## Held on 22 January, 2017 (Paper-I)

**Note :** ● This paper contains **Sixty (60)** multiple-choice questions, each question carrying **two (2)** marks.

● Candidate is expected to answer any **Fifty (50)** questions.

● In case more than **Fifty (50)** questions are attempted, only the first **Fifty (50)** questions will be evaluated.

**Directions—(Q. 1–3)** The table below embodies data on the sales revenue (₹ in lakh) generated by a publishing house during the years 2012–15 while selling books, magazines and journals as three categories of items. Answer questions based on the data contained in the table.

Items	Sales Revenue (₹ in lakh)			
	Year			
	2012	2013	2014	2015
Journals	46	47	45	44
Magazines	31	39	46	51
Books	73	77	78	78
<b>Total</b>				

- If the year 2016 were to show the same growth in terms of total sales revenue as the year 2015 over the year 2014, then the revenue in the year 2016 must be approximately—  
(A) ₹ 194 lakh (B) ₹ 187 lakh  
(C) ₹ 172 lakh (D) ₹ 177 lakh
- In 2015, approximately what per cent of total revenue came from books ?  
(A) 45% (B) 55%  
(C) 35% (D) 25%
- The number of years in which there was an increase in revenue from at least two categories of items, is—  
(A) 0 (B) 1  
(C) 2 (D) 3

**Directions—(Q. 4–6)** Answer these questions based on the data given below—

A University professor maintains data on MCA students tabulated by performance and gender of the students. The data is kept on a computer hard disk, but accidentally some of it is lost because of a computer virus. Only the following could be recovered—

Gender	Number of MCA Students			
	Performance			
	Average	Good	Excellent	Total
Male			10	
Female				32
<b>Total</b>		<b>30</b>		

Panic buttons were pressed but to no avail. An expert committee was formed, which decided that the following facts were self evident—

- Half the students were either excellent or good.
  - 40% of the students were females.
  - One-third of the male students were average.
- Approximately, what proportion of good students are male ?  
(A) 0 (B) 0.73  
(C) 0.43 (D) 0.27
  - How many female students are excellent ?  
(A) 0 (B) 8  
(C) 16 (D) 32
  - What proportion of female students are good ?  
(A) 0 (B) 0.25  
(C) 0.50 (D) 0.75
  - Which of the following correctly lists computer memory types from highest to lowest speed ?  
(A) Secondary Storage; Main Memory (RAM); Cache Memory; CPU Registers  
(B) CPU Registers; Cache Memory; Secondary Storage; Main Memory (RAM)  
(C) CPU Registers; Cache Memory; Main Memory (RAM); Secondary Storage  
(D) Cache Memory; CPU Registers; Main Memory (RAM); Secondary Storage
  - Which of the following statements(s) is/are TRUE ?  
S1 : The decimal number 11 is larger than the hexadecimal number 11.  
S2 : In the binary number 1110.101, the fractional part has the decimal value as 0.625.  
(A) S1 only (B) S2 only  
(C) Both S1 and S2 (D) Neither S1 nor S2
  - Read the following two statements—  
I : Information and Communication Technology (ICT) is considered a subset of Information Technology (IT).

- II : The 'right to use' a piece of software is termed as copyright.  
Which of the above statement(s) is/are CORRECT ?  
(A) Both I and II (B) Neither I nor II  
(C) II only (D) I only
10. DVD technology uses an optical media to store the digital data. DVD is an acronym for—  
(A) Digital Vector Disc  
(B) Digital Volume Disc  
(C) Digital Versatile Disc  
(D) Digital Visualization Disc
11. **Assertion (A)** : Sustainable development is critical to well being of human society.  
**Reason (R)** : Environmentally sound policies do not harm the environment or deplete the natural resources.  
Choose the correct code—  
(A) Both (A) and (R) are correct and (R) is the correct explanation of (A)  
(B) Both (A) and (R) are correct, but (R) is not the correct explanation of (A)  
(C) (A) is true and (R) is false  
(D) (A) is false and (R) is true
12. The dominant source of pollution due to oxides of nitrogen ( $\text{NO}_x$ ) in urban areas is—  
(A) Road transport  
(B) Commercial sector  
(C) Energy use in industry  
(D) Power plants
13. Which of the following is **not** a water-borne disease ?  
(A) Typhoid (B) Hepatitis  
(C) Cholera (D) Dengue
14. Which of the following is a characteristic of Web2.0 applications ?  
(A) Multiple users schedule their time to use Web2.0 applications one by one  
(B) Web2.0 applications are focused on the ability for people to collaborate and share information online  
(C) Web2.0 applications provide users with content rather than facilitating users to create it  
(D) Web2.0 applications use only static pages
15. With regard to a word processing software, the process of combining static information in a publication together with variable information in a data source to create one merged publication is called—  
(A) Electronic mail (B) Data sourcing  
(C) Mail merge (D) Spam mail
16. Which of the following natural hazards is **not** hydro-meteorological ?  
(A) Snow avalanche (B) Sea erosion  
(C) Tropical cyclone (D) Tsunami
17. Which of the following are the demerits of globalisation of higher education ?  
(a) Exposure to global curriculum  
(b) Promotion of elitism in education  
(c) Commodification of higher education  
(d) Increase in the cost of education  
Select the correct answer from the codes given below—  
**Codes :**  
(A) (a) and (d) (B) (a), (c) and (d)  
(C) (b), (c) and (d) (D) (a), (b), (c) and (d)
18. Which of the following statements are correct about deemed universities ?  
(a) The Governor of the State is the chancellor of deemed universities.  
(b) They can design their own syllabus and course work.  
(c) They can frame their own guidelines regarding admission and fees.  
(d) They can grant degree.  
Select the correct answer from the codes given below—  
**Codes :**  
(A) (a), (b) and (c) (B) (b), (c) and (d)  
(C) (a), (c) and (d) (D) (a), (b), (c) and (d)
19. Indian government's target for power production from small hydro projects by the year 2022 is—  
(A) 1 Giga-Watt (B) 5 Giga-Watt  
(C) 10 Giga-Watt (D) 15 Giga-Watt
20. In which country, the recent international agreement on phasing out Hydro Fluoro Carbons (HFCs) was signed ?  
(A) Rwanda (B) Morocco  
(C) South Africa (D) Algeria
21. Which of the following are not necessarily the immediate consequences of the proclamation of the President's Rule in a State ?  
(a) Dissolution of the State Assembly  
(b) Removal of the Council of Ministers in the State  
(c) Takeover of the State administration by the Union Government  
(d) Appointment of a new Chief Secretary  
Select the correct answer from the codes given below—  
**Codes :**  
(A) (a) and (d) (B) (a), (b) and (c)  
(C) (a), (b), (c) and (d) (D) (b) and (c)
22. Instead of holding the office during the pleasure of the President who among the following hold(s) office during good behaviour ?  
(a) Governor of a State  
(b) Attorney General of India

- (c) Judges of the High Court  
 (d) Administrator of a Union Territory  
 Select the correct answer from the codes given below—  
**Codes :**  
 (A) (a) only (B) (c) only  
 (C) (a) and (c) (D) (a), (b), (c) and (d)
23. The purpose of value education is best served by focussing on—  
 (A) Cultural practices prevailing in the society  
 (B) Norms of conduct laid down by a social group  
 (C) Concern for human values  
 (D) Religious and moral practices and instructions
24. Which of the following statements are correct ?  
 (a) Rajya Sabha is a permanent House which can be dissolved only during national emergency.  
 (b) Rajya Sabha does not represent the local interests of the States.  
 (c) Members of the Rajya Sabha are not bound to vote at the dictates of the states they represent.  
 (d) No Union territory has a representative in the Rajya Sabha.  
 Select the correct answer from the codes given below—  
**Codes :**  
 (A) (a) and (d) (B) (b) and (c)  
 (C) (b), (c) and (d) (D) (a), (b), (c) and (d)
25. Effectiveness of teaching has to be judged in terms of—  
 (A) Course coverage  
 (B) Students' interest  
 (C) Learning outcomes of students  
 (D) Use of teaching aids in the classroom
26. In which teaching method learner's participation is made optimal and proactive ?  
 (A) Discussion method  
 (B) Buzz session method  
 (C) Brainstorming session method  
 (D) Project method
27. One of the most powerful factors affecting teaching effectiveness is related to the—  
 (A) Social systems of the country  
 (B) Economic status of the society  
 (C) Prevailing political system  
 (D) Educational system
28. **Assertion (A)** : Formative evaluation tends to accelerate the pace of learning.  
**Reason (R)** : As against summative evaluation, formative evaluation is highly reliable.  
 Choose the correct answer from the following code—  
 (A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
 (B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)  
 (C) (A) is true, but (R) is false  
 (D) (A) is false, but (R) is true
29. Which of the following set of statements represents acceptable propositions in respect of teaching-learning relationships ? Choose the correct code to indicate your answer.  
 (i) When students fail in a test, it is the teacher who fails.  
 (ii) Every teaching must aim at ensuring learning.  
 (iii) There can be teaching without learning taking place.  
 (iv) There can be no learning without teaching.  
 (v) A teacher teaches but learns also.  
 (vi) Real learning implies rote learning.  
**Codes :**  
 (A) (ii), (iii), (iv) and (v)  
 (B) (i), (ii), (iii) and (v)  
 (C) (iii), (iv), (v) and (vi)  
 (D) (i), (ii), (v) and (vi)
30. **Assertion (A)** : Learning is a life long process.  
**Reason (R)** : Learning to be useful must be linked with life process.  
 Choose the correct answer from the following code—  
 (A) Both (A) and (R) are true and (R) is the correct explanation of (A)  
 (B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)  
 (C) (A) is true, but (R) is false  
 (D) (A) is false, but (R) is true
31. Which sequence of research steps is logical in the list given below ?  
 (A) Problem formulation, Analysis, Development of Research design, Hypothesis making, Collection of data, Arriving at generalizations and conclusions  
 (B) Development of Research design, Hypothesis making, Problem formulation, Data analysis, Arriving at conclusions and data collection  
 (C) Problem formulation, Hypothesis making, Development of a Research design, Collection of data analysis and formulation of generalizations and conclusions  
 (D) Problem formulation, Deciding about the sample and data collection tools, Formulation of hypothesis, Collection and interpretation of research evidence
32. Below are given two sets—research methods (Set-I) and data collection tools (Set-II). Match the two sets and indicate your answer by selecting the correct code—  
**Set-I (Research Methods)**  
 (a) Experimental method  
 (b) Ex post-facto method

- (c) Descriptive survey method  
(d) Historical method

**Set-II (Data Collection Tools)**

1. Using primary and secondary sources
2. Questionnaire
3. Standardized tests
4. Typical characteristic tests

**Codes :**

	(a)	(b)	(c)	(d)
(A)	2	1	3	4
(B)	3	4	2	1
(C)	2	3	1	4
(D)	2	4	3	1

33. The issue of 'research ethics' may be considered pertinent at which stage of research ?
- (A) At the stage of problem formulation and its definition  
(B) At the stage of defining the population of research  
(C) At the stage of data collection and interpretation  
(D) At the stage of reporting the findings
34. In which of the following, reporting format is formally prescribed ?
- (A) Doctoral level thesis  
(B) Conference of researchers  
(C) Workshops and seminars  
(D) Symposia
35. The principal of a school conducts an interview session of teachers and students with a view to explore the possibility of their enhanced participation in school programmes. This endeavour may be related to which type of research ?
- (A) Evaluation Research  
(B) Fundamental Research  
(C) Action Research  
(D) Applied Research
36. In doing action research what is the usual sequence of steps ?
- (A) Reflect, observe, plan, act  
(B) Plan, act, observe, reflect  
(C) Plan, reflect, observe, act  
(D) Act, observe, plan, reflect

**Directions—**(Q. 37–42) Read the following passage carefully and answer these questions.

The last great war, which nearly shook the foundations of the modern world, had little impact on Indian literature beyond aggravating the popular revulsion against violence and adding to the growing disillusionment with the 'humane pretensions' of the Western World. This was eloquently voiced in Tagore's later poems and his last testament, **Crisis in Civilisation**. The Indian intelligentsia was in a state of moral dilemma. On

the one hand, it could not help sympathising with England's dogged courage in the hour of peril, with the Russians fighting with their backs to the wall against the ruthless Nazi hordes, and with China groaning under the heel of Japanese militarism; on the other hand, their own country was practically under military occupation of their own soil, and an Indian army under Subhas Bose was trying from the opposite camp to liberate their country. No creative impulse could issue from such confusion of loyalties. One would imagine that the achievement of Indian independence in 1947, which came in the wake of the Allies' victory and was followed by the collapse of colonialism in the neighbouring countries of South-East Asia, would have released an upsurge of creative energy. No doubt it did, but unfortunately it was soon submerged in the great agony of partition, with its inhuman slaughter of the innocents and the uprooting of millions of people from their homeland, followed by the martyrdom of Mahatma Gandhi. These tragedies, along with Pakistan's invasion of Kashmir and its later atrocities in Bangladesh, did indeed provoke a poignant writing, particularly in the languages of the regions most affected, Bengali, Hindi, Kashmiri, Punjabi, Sindhi and Urdu. But poignant or passionate writing does not by itself make great literature. What reserves of enthusiasm and confidence survived these disasters have been mainly absorbed in the task of national reconstruction and economic development. Great literature has always emerged out of chains of convulsions. Indian literature is richer today in volume, range and variety than it ever was in the past.

37. What was the stance of Indian intelligentsia during the period of great war ?
- (A) Indifference to Russia's plight  
(B) They favoured Japanese militarism  
(C) They prompted creativity out of confused loyalties  
(D) They expressed sympathy for England's dogged courage
38. Identify the factor responsible for the submergence of creative energy in Indian literature.
- (A) Military occupation of one's own soil  
(B) Resistance to colonial occupation  
(C) Great agony of partition  
(D) Victory of Allies
39. What was the aftermath that survived tragedies in Kashmir and Bangladesh ?
- (A) Suspicion of other countries  
(B) Continuance of rivalry  
(C) Menace of war  
(D) National reconstruction
40. The passage has the message that—
- (A) Disasters are inevitable  
(B) Great literature emerges out of chains of convulsions

- (C) Indian literature does not have a marked landscape  
 (D) Literature has no relation with war and independence
41. What was the impact of the last great war on Indian literature ?  
 (A) It has no impact  
 (B) It aggravated popular revulsion against violence  
 (C) It shook the foundations of literature  
 (D) It offered eloquent support to the Western World
42. What did Tagore articulate in his last testament ?  
 (A) Offered support to Subhas Bose  
 (B) Exposed the humane pretensions of the Western World  
 (C) Expressed loyalty to England  
 (D) Encouraged the liberation of countries
43. The typical feature of an information-rich classroom lecture is in the nature of being—  
 (A) Sedentary (B) Staggered  
 (C) Factual (D) Sectoral
44. Expressive communication is driven by—  
 (A) Passive aggression  
 (B) Encoder's personality characteristics  
 (C) External clues  
 (D) Encoder-decoder contract
45. Positive classroom communication leads to—  
 (A) Coercion (B) Submission  
 (C) Confrontation (D) Persuasion
46. Classroom communication is the basis of—  
 (A) Social identity (B) External inanities  
 (C) Biased passivity (D) Group aggression
47. Effective communication pre-supposes—  
 (A) Non-alignment (B) Domination  
 (C) Passivity (D) Understanding
48. When verbal and non-verbal messages are contradictory, it is said that most people believe in—  
 (A) Indeterminate messages  
 (B) Verbal messages  
 (C) Non-verbal message  
 (D) Aggressive messages
49. If A is coded as C, M as I, N as P, S as O, I as A, P as N, E as M, O as E and C as S, then the code of COMPANIES will be—  
 (A) SPEINMOAC (B) NCPSEIOMA  
 (C) SMOPIEACN (D) SEINCPAMO
50. Among the following, identify the continuous type of data—  
 (A) Number of languages a person speaks  
 (B) Number of children in a household  
 (C) Population of cities  
 (D) Weight of students in a class
51. Ali buys a glass, a pencil box and cup and pays ₹ 21 to the shopkeeper. Rakesh buys a cup, two pencil boxes and a glass and pays ₹ 28 to the shopkeeper. Preeti buys two glasses, a cup and two pencil boxes and pays ₹ 35 to the shopkeeper. The cost of 10 cups will be—  
 (A) ₹ 40 (B) ₹ 60  
 (C) ₹ 80 (D) ₹ 70
52. Out of four cities given below three are alike in some manner while the fourth one is different. Identify the odd one—  
 (A) Lucknow (B) Rishikesh  
 (C) Allahabad (D) Patna
53. Given below are some characteristics of reasoning. Select the code that states a characteristic which is not of deductive reasoning—  
 (A) The conclusion must be based on observation and experiment  
 (B) The conclusion should be supported by the premise/premises  
 (C) The conclusion must follow from the premise/premises necessarily  
 (D) The argument may be valid or invalid
54. The missing term in the series 1, 4, 27, 16, ?, 36, 343, ... is—  
 (A) 30 (B) 49  
 (C) 125 (D) 81
55. The next term in the following series YEB, WFD, UHG, SKI, ? will be—  
 (A) TLO (B) QOL  
 (C) QLO (D) GQP
56. Among the following propositions two are related in such a way that they cannot both be true but can both be false. Select the code that states those two propositions.  
**Propositions :**  
 (a) Every student is attentive.  
 (b) Some students are attentive.  
 (c) Students are never attentive.  
 (d) Some students are not attentive.  
**Codes :**  
 (A) (a) and (b) (B) (a) and (c)  
 (C) (b) and (c) (D) (c) and (d)
57. Given below are two premises [(a) and (b)]. From those two premises four conclusions (i), (ii), (iii), & (iv) are drawn. Select the code that states the conclusions validly drawn from the premises (taking singly or jointly.)  
**Premises :**  
 (a) Untouchability is a course.  
 (b) All hot pans are untouchable.  
**Conclusions :**  
 (i) All hot pans are curse.  
 (ii) Some untouchable things are hot pans.  
 (iii) All curses are untouchability.  
 (iv) Some curses are untouchability.



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