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UGC NET/JRF EXAM.

SOLVED PAPERS

Teaching and Research Aptitude

(General Paper-I)

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Teaching and Research Aptitude

UGC-NET/JRF Exam.

Solved Papers

June 2006
Teaching and Research Aptitude
(Paper–I)

Note—This paper contains **fifty (50)** multiple choice questions, each question carrying **two (2)** marks. Attempt **all** of them.

1. Which of the following comprise teaching skill ?
   (A) Black Board writing
   (B) Questioning
   (C) Explaining
   (D) All the above

2. Which of the following statements is most appropriate ?
   (A) Teacher can teach
   (B) Teachers' help can create in a student a desire to learn
   (C) Lecture Method can be used for developing thinking
   (D) Teachers are born

3. The first Indian Chronicler of Indian history was—
   (A) Megasthanese (B) Fahiyan
   (C) Huan Tsang (D) Kalhan

4. Which of the following statements is correct ?
   (A) Syllabus is a part of curriculum
   (B) Syllabus is an annexure to curriculum
   (C) Curriculum is the same in all educational institutions affiliated to a particular university
   (D) Syllabus is not the same in all educational institutions affiliated to a particular university

5. Which of the two given options is of the level of understanding ?
   (I) Define noun
   (II) Define noun in your own words
   (A) Only I (B) Only II
   (C) Both I and II (D) Neither I nor II

6. Which of the following options are the main tasks of research in modern society ?
   (I) To keep pace with the advancement in knowledge.
   (II) To discover new things.
   (III) To write a critique on the earlier writings.
   (IV) To systematically examine and critically analyse the investigations/sources with objectivity.
   (A) IV, II and I (B) I, II and III
   (C) I and III (D) II, III and IV

7. Match List–I (Interviews) with List–II (Meaning) and select the correct answer from the codes given below—

   List–I (Interviews)
   (a) Structured interviews
   (b) Unstructured interviews
   (c) Focussed interviews
   (d) Clinical Interviews

   List–II (Meaning)
   1. Greater flexibility approach
   2. Attention on the questions to be answered
   3. Individual life experience
   4. Pre determined question
   5. Non-directive

   Codes :

	(a)	(b)	(c)	(d)
(A)	4	1	2	3
(B)	2	4	1	3
(C)	5	2	4	1
(D)	1	3	5	4

8. What do you consider as the main aim of inter-disciplinary research ?
   (A) To bring out holistic approach to research
   (B) To reduce the emphasis of single subject in research domain
   (C) To over-simplify the problem of research
   (D) To create a new trend in research methodology

9. One of the aims of the scientific method in research is to—
   (A) improve data interpretation
   (B) eliminate spurious relations
   (C) confirm triangulation
   (D) introduce new variables

10. The depth of any research can be judged by—
   (A) title of the research
   (B) objective of the research
   (C) total expenditure on the research
   (D) duration of the research

Directions—(Q. 11 to 15) Read the following passage and answer the questions that follows—

The superintendence, direction and control of preparation of electoral rolls for, and the conduct of, elections to Parliament and State Legislatures and elections to the offices of the President and the Vice-President of India are vested in the Election Commission of India. It is an independent constitutional authority.

Independence of the Election Commission and its insulation from executive interference is ensured by a specific provision under Article 324(5) of the Constitution that the Chief Election Commissioner shall not be removed from his office except in like manner and on like grounds as a Judge of the Supreme Court and conditions of the service shall not be varied to his disadvantage after his appointment.

In C. W. P. No. 4912 of 1998 (Kushra Bharat *Vs*. Union of India and others), the Delhi High Court directed that information relating to Government dues owed by the candidates to the departments dealing with Government accommodation, electricity, water, telephone and transport etc. and any other dues should be furnished by the candidates and this information should be published by the election authorities under the commission.

11. The text of the passage reflects or raises certain questions—
   (A) The authority of the commission can not be challenged
   (B) This would help in stopping the criminalization of Indian politics
   (C) This would reduce substantially the number of contesting candidates
   (D) This would ensure fair and free elections

12. According to the passage, the Election Commission is an independent constitutional authority. This is under Article No—
   (A) 324 (B) 356
   (C) 246 (D) 161

13. Independence of the Commission means—
   (A) have constitutional status
   (B) have legislative power
   (C) have judicial powers
   (D) have political powers

14. Fair and free election means—
   (A) transperancy
   (B) to maintain law and order
   (C) regional considerations
   (D) role for pressure groups

15. The Chief Election Commissioner can be removed from his office under Article—
   (A) 125 (B) 352
   (C) 226 (D) 324

16. The function of mass communication of supplying information regarding the processes, issues, events and societal developments is known as—
   (A) content supply (B) suveillance
   (C) gratification (D) correlation

17. The science of the study of feedback system in humans, animals and machines is known as—
   (A) cybernetics
   (B) reverse communication
   (C) selectivity study
   (D) response analysis

18. Networked media exist in inter-connected—
   (A) social environments
   (B) economic environments
   (C) political environments
   (D) technological environments

19. The combination of computing, telecommunication and media in a digital atmosphere is referred to as—
    (A) online communication
    (B) integrated media
    (C) digital combine
    (D) convergence

20. A dialogue between a human-being and a computer programme that occurs simultaneously in various forms is described as—
    (A) man-machine speak
    (B) binary chat
    (C) digital talk
    (D) interactivity

21. Insert the missing number—
    $\frac{16}{32}, \frac{15}{33}, \frac{17}{31}, \frac{14}{34}$?
    (A) $\frac{19}{35}$ (B) $\frac{19}{30}$
    (C) $\frac{18}{35}$ (D) $\frac{18}{30}$

22. Monday falls on 20th March, 1995. What was the day on 3rd November, 1994 ?
    (A) Thursday (B) Sunday
    (C) Tuesday (D) Saturday

23. The average of four consecutive even numbers is 27. The largest of these numbers is—
    (A) 36 (B) 32
    (C) 30 (D) 28

24. In a certain code, FHQK means GIRL. How will WOMEN be written in the same code ?
    (A) VNLDM (B) FHQKN
    (C) XPNFO (D) VLNDM

25. At what time between 4 and 5 O' clock will the hands of a watch point in opposite directions ?
    (A) 45 min. past 4
    (B) 40 min. past 4
    (C) $50\frac{4}{11}$ min. past 4
    (D) $54\frac{6}{11}$ min. past 4

26. Which of the following conclusions is Logically valid based on statement given below ?
    Statement : Most teachers are hard working.
    Conclusions : (I) Some teachers are hard working.
    (II) Some teachers are not hard working.
    (A) Only (I) is implied
    (B) Only (II) is implied
    (C) Both (I) and (II) are implied
    (D) Neither (I) nor (II) is implied

27. Who among the following can be asked to make a statement in Indian Parliament ?
    (A) Any MLA
    (B) Chief of Army Staff
    (C) Solicitor General of India
    (D) Mayor of Delhi

28. Which of the following conclusions is logically valid based on statement given below ?
    Statement : Most of the Indian States existed before independence.
    Conclusions : (I) Some Indian States existed before independence.
    (II) All Indian states did not exist before Independence.
    (A) Only (I) is implied
    (B) Only (II) is implied
    (C) Both (I) and (II) are implied
    (D) Neither (I) nor (II) is implied

29. Water is always involved with landslides. This is because it—
    (A) reduces the shear strength of rocks
    (B) increases the weight of the overburden
    (C) enhances chemical weathering
    (D) is a universal solvent

30. **Directions :** Given below are two statements (a) and (b) followed by two conclusions (i) and (ii). Considering the statements to be true, indicate which of the following conclusions logically follow from the given statements by selecting one of the four response alternatives given below the conclusion ?
    Statement : (a) All businessmen are wealthy.
    (b) All wealthy people are hard working.

Conclusions : (i) All businessmen are hard working.
(ii) All hardly working people are not wealthy.

(A) Only (i) follows
(B) Only (ii) follows
(C) Both (i) and (ii) follows
(D) Neither (i) nor (ii) follows

31. Using websites to pour out one's grievances is called—
(A) cyberventing (B) cyber ranting
(C) web hate (D) web plea

32. In web search, finding a large number of documents with very little relevant information is termed—
(A) poor recall
(B) web crawl
(C) poor precision rate
(D) poor web response

33. The concept of connect intelligence is derived from—
(A) virtual reality
(B) fuzzy logic
(C) bluetooth technology
(D) value added networks

34. Use of an ordinary telephone as an Internet applicance is called—
(A) voice net (B) voice telephone
(C) voice line (D) voice portal

35. Video transmission over the Internet that looks like delayed livecasting is called—
(A) virtual video (B) direct broadcast
(C) video shift (D) real-time video

36. Which is the smallest North-East State in India ?
(A) Tripura (B) Meghalaya
(C) Mizoram (D) Manipur

37. Tamil Nadu coastal belt has drinking water shortage due to—
(A) high evaporation
(B) sea water flooding due to Tsunami
(C) over-exploitation of ground water by tubewells
(D) seepage of sea water

38. While all rivers of Penisular India flow into the Bay of Bengal, Narmada and Tapti flow into the Arabian Sea because these two rivers—
(A) Follow the slope of these rift valleys
(B) The general slope of the Indian peninsula is from east to west
(C) The Indian peninsula north of the Satpura ranges, is tilted towards the west
(D) The Indian peninsula south of the Satpura ranges is tilted towards east

39. Soils in the Mahanadi delta are less fertile than those in the Godavari delta because of—
(A) erosion of top soils by annual floods
(B) inundation of land by sea water
(C) traditional agriculture practices
(D) the derivation of alluvial soil from red-soil hinterland

40. Which of the following institutions in the field of education is set-up by the MHRD Government of India ?
(A) Indian Council of World Affairs, New Delhi
(B) Mythic Society, Bangalore
(C) National Bal Bhawan, New Delhi
(D) India International Centre, New Delhi

41. **Assertion (A):** Aersols have potential for modifying climate.
Reason (R) : Aerosols interact with both short waves and radiation.
(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

42. 'SITE' stands for—
(A) System for International Technology and Engineering
(B) Satellite Instructional Television Experiment
(C) South Indian Trade Estate
(D) State Institute of Technology and Engineering

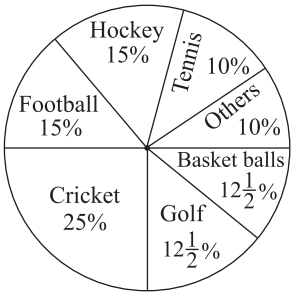
43. What is the name of the Research station established by the Indian Government for 'Conducting Research at Antarctic ?
(A) Dakshin Gangotri

(B) Yamunotri
(C) Uttari Gangotri
(D) None of the above

44. Ministry of Human Resource Development (HRD) includes—
(A) Department of Elementary Education and Literacy
(B) Department of Secondary Education and Higher Education
(C) Department of Women and Child Development
(D) All the above

45. Parliament can legislate on matters listed in the State list—
(A) With the prior permission of the President
(B) Only after the constitution is amended suitably
(C) In case of inconsistency among State legislatures
(D) At the request of two or more states.

Directions—(Q. 46 to 50) The following pie chart indicates the expenditure of a country on various sports during a particular year. Study the pie chart and answer the questions—



46. The ratio of the total expenditure on football to that of expenditure on hockey is—
(A) 1 : 15 (B) 1 : 1
(C) 15 : 1 (D) 3 : 20

47. If the total expenditure on sports during the year was ₹ 1,20,000,00 how much was spent on basket ball ?
(A) ₹ 9,50,000
(B) ₹ 10,00,000
(C) ₹ 12,00,000
(D) ₹ 15,00,000

48. The chart shows that the most popular game of the country is—
(A) Hockey (B) Football
(C) Cricket (D) Tennis

49. Out of the following country's expenditure is the same on :
(A) Hockey and Tennis
(B) Golf and Basketball
(C) Cricket and Football
(D) Hockey and Golf

50. If the total expenditure on sport during the year was ₹ 1,50,00,000 the expenditure on cricket and hockey together was—
(A) ₹ 60,00,000
(B) ₹ 50,00,000
(C) ₹ 37,50,000
(D) ₹ 25,00,000

Answers

1. (D)	2. (B)	3. (A)	4. (A)	5. (B)
6. (A)	7. (A)	8. (B)	9. (B)	10. (B)
11. (D)	12. (A)	13. (A)	14. (B)	15. (D)
16. (A)	17. (A)	18. (D)	19. (D)	20. (D)
21. (D)	22. (A)	23. (C)	24. (A)	25. (D)
26. (B)	27. (C)	28. (A)	29. (B)	30. (D)
31. (A)	32. (A)	33. (D)	34. (C)	35. (D)
36. (A)	37. (D)	38. (A)	39. (A)	40. (C)
41. (A)	42. (B)	43. (A)	44. (D)	45. (D)
46. (B)	47. (D)	48. (C)	49. (D)	50. (A)

December 2006
Teaching and Research Aptitude
(Paper–I)

Note—This paper contains **fifty (50)** multiple choice questions, each question carrying **two (2)** marks. Attempt **all** of them.

1. Which of the following is not instructional material ?
   (A) Over Head Projector
   (B) Audio Casset
   (C) Printed Material
   (D) Transparency
2. Which of the following statement is not correct ?
   (A) Lecture Method can develop reasoning
   (B) Lecture Method can develop knowledge
   (C) Lecture Method is one way process
   (D) During Lecture Method students are passive
3. The main objective of teaching at Higher Education Level is—
   (A) To prepare students to pass examination
   (B) To develop the capacity to take decisions
   (C) To give new information
   (D) To motivate students to ask questions during lecture
4. Which of the following statement is correct ?
   (A) Reliability ensures validity
   (B) Validity ensures reliability
   (C) Reliability and validity are independent of each other
   (D) Reliability does not depend on objectivity
5. Which of the following indicates evaluation ?
   (A) Ram got 45 marks out of 200
   (B) Mohan got 38 per cent marks in English
   (C) Shyam got First Division in final examination
   (D) All the above
6. Research can be conducted by a person who—
   (A) has studied research methodology
   (B) holds a postgraduate degree
   (C) possesses thinking and reasoning ability
   (D) is a hard worker
7. Which of the following statements is correct ?
   (A) Objectives of research are stated in first chapter of the thesis
   (B) Researcher must possess analytical ability
   (C) Variability is the source of problem
   (D) All the above
8. Which of the following is not the Method of Research ?
   (A) Observation (B) Historical
   (C) Survey (D) Philosophical
9. Research can be classified as—
   (A) Basic, Applied and Action Research
   (B) Quantitative and Qualitative Research
   (C) Philosophical, Historical, Survey and Experimental Research
   (D) All the above
10. The first step of research is—
    (A) Selecting a problem
    (B) Searching a problem
    (C) Finding a problem
    (D) Identifying a problem

Directions—(Q. 11 to 15) Read the following passage and answer the questions—

After almost three decades of contemplating Swarovski-encrusted navels on increasing flat abs, the Mumbai film industry is on a discovery of India and itself. With budgets of over 30 crore each, four soon to be released movies by premier

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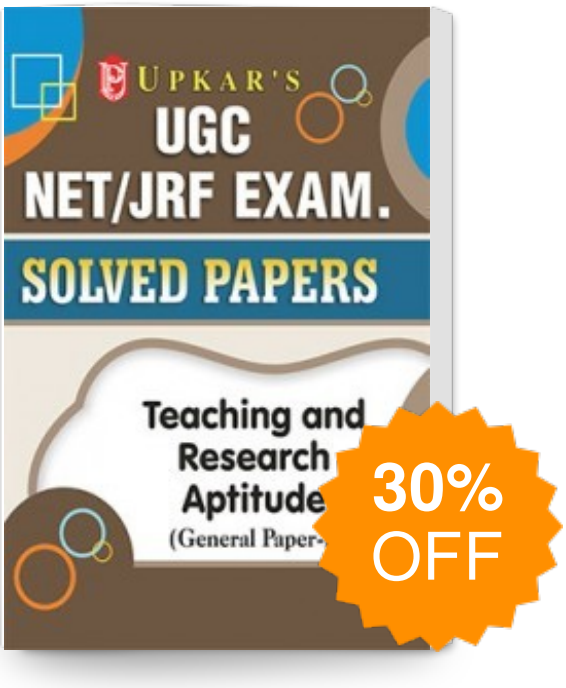

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