

NTA National Eligibility Test (NET) /TS&AP-SET Paper-I: Model Paper

Paper – I Teaching and Research Aptitude

National Testing Agency (NTA) National Eligibility Test (NET) twice in a year in the months of June and December for determining the eligibility of Indian national candidates for the award of **Junior Research Fellow** and for determining eligibility for recruitment of **Assistant Professor** in Universities and Lecturer in colleges. **Syllabus and Pattern of Exam-10 Chapters. Each chapter 5 questions, Each question carries 2 Marks total 10 Marks from each chapter**, from total Chapters $10 \times 5 \text{ Questions} = 50 \times 2 = 100$ Marks

Chapter 1 -Teaching Aptitude: *Teaching, Nature , objectives, characteristics , Learner’s characteristics, Methods of Teaching , Teaching aids, On-line methods (Swayam, Swayamprabha, MOOCs etc.), Teaching Support System: Traditional, Modern and ICT based. Evaluation Systems Choice Based Credit System , Computer based testing.*

1. Blended Learning is a combination _____
 - a) Online Learning and e-learning
 - b) Online Learning and Digital Learning
 - c) Online Learning and Traditional Learning
 - d) Online Learning and Flipped Learning
2. Which of the following is a non-conventional learning programme in higher education?
 - a) SWAYAM
 - b) Face-to-face teaching-learning
 - c) Tutorial class
 - d) Seminar
3. Which one of the following is considered a sign of motivated teaching?
 - a) Students asking questions
 - b) Maximum attendance of the students
 - c) Pin drop silence in the classroom
 - d) Students taking notes
4. The primary duty of the teacher is to
 - (A) raise the intellectual standard of the students
 - (B) improve the physical standard of the students
 - (C) help all round development of the students
 - (D) imbibe value system in the students
5. Micro teaching is more effective
 - (A) during the preparation for teaching-practice
 - (B) during the teaching-practice
 - (C) after the teaching-practice
 - (D) always

Chapter 2-Research Aptitude: *Research, Steps of research, Methods of research , Research Ethics, Paper, Articles, Workshop, Seminar, Conference, symposium, thesis and Research Nature.*

6. Identify the flow of research steps :
 - a) Selection of topic, review of literature, data collection, interpretation of findings
 - b) Review of literature, selection of topic, data collection, interpretation of findings
 - c) Selection of topic, data collection, review of literature, interpretation of findings
 - d) Selection of topic, review of literature, interpretation of findings, data collection
- 7) Which one of the following is a research tool?
 - (A) Graph
 - (B) Illustration
 - (C) Questionnaire
 - (D) Diagram
- 8) A research paper is a brief report of research work based on
 - (A) Primary Data only
 - (B) Secondary Data only
 - (C) Both Primary and Secondary Data
 - (D) None of the above
- 9) A group of experts in a specific area of knowledge assembled at a place and prepared a syllabus for a new course. The process may be termed as
 - (A) Seminar
 - (B) Workshop
 - (C) Conference
 - (D) Symposium

10) Which one of the following references is written according to American Psychological Association (APA) format?

- (A) Sharma, V. (2020). Fundamentals of Computer Science. New Delhi : Tata McGraw Hill
- (B) Sharma, V. 2020. Fundamentals of Computer Science. New Delhi : Tata McGraw Hill
- (C) Sharma.V. 2020. Fundamentals of Computer Science, New Delhi : Tata McGraw Hill
- (D) Sharma, V. (2020), Fundamentals of Computer Science, New Delhi : Tata McGraw Hill

Chapter 3 -Read the following passage carefully and answer the questions 11 to 15.

The **Taj Mahal** has become one of the world's best known monuments. This domed white marble structure is situated on a high plinth at the southern end of a four-quartered garden evoking the gardens of paradise, enclosed within walls measuring 305 by 549 metres. Outside the walls, in an area known as Mumtazabad, were living quarters for attendants, markets, serais and other structures built by local merchants and nobles. The tomb complex and the other imperial structures of Mumtazabad were maintained by the income of thirty villages given specifically for the tomb's support. The name Taj Mahal is unknown in Mughal chronicles, but it is used by contemporary Europeans in India, suggesting that this was the tomb's popular name. In contemporary texts, it is generally called simply the Illuminated Tomb (Rauza-i-Munavvara). Mumtaz Mahal died shortly after delivering her fourteenth child in 1631. The Mughal court was then residing in Burhanpur. Her remains 'were temporarily buried. by the grief stricken emperor in a spacious garden known as Zainabad on the bank of the river Tapti. SIX months later her body was transported to Agra, where it was interred in land chosen for the mausoleum. This land, situated south of the- Mughal city on the bank of the Jamuna, had belonged to the Kachhwaha rajas since the time of Raja Man Singh and was purchased from the then current raja, Jai Singh. Although contemporary chronicles indicate Jai Singh's willing cooperation in this exchange, extant, farmans (imperial commands) indicate that the final price was not settled until almost two years after the mausoleum's commencement. Jai Singh's further cooperation was insured by imperial orders issued between 1632 and 1637 demanding that he provide stone masons and carts to transport marble from the mines at Makrana, within his "ancestral domain", to Agra where both the Taj Mahal and Shah Jahan's additions to the Agra fort were constructed concurrently. Work on the mausoleum was commenced early in 1632. Inscriptional evidence indicates much of the tomb was completed by 1636. By 1643, when Shah Jahan most lavishly celebrated the 'Urs ceremony for Mumtaz Mahal', the entire complex was virtually complete.

11. Marble stone used for the construction of the Taj Mahal was brought from the ancestral domain of Raja Jai Singh. The name of the place where mines of marble is
- a) Burhanpur b) Makrana c) Amber d) Jaipur
12. The popular name Taj Mahal was given by
- a) Shah Jahan b) Tourists c) Public d) European travelers
13. In the contemporary texts the Taj Mahal is known
- a). Mumtazabad b) Mumtaz Mahal c) Zainabad d) Rauza-i-Munavvara.
14. The construction of the Taj Mahal was completed between the period
- a) 1632 – 1636 A.D. b) 1630 – 1643A.D. c) 1632 -1643 A.D. d) 1636 – 1643 A.D.
15. The documents indicating the ownership of land, where the Taj Mahal was built, known as
- a) Farman b) Sale Deed c) Sale-Purchase Deed d) None of the above

Chapter 4 – Communication: *Communication Nature, Types, Characteristics, Barriers and Effective Classroom Communication.*

- 16) A smart classroom is a teaching space which has
- (i) Smart portion with a touch panel control system. (ii) PC/Laptop connection and DVD/VCR player.
 - (iii) Document camera and specialized software (iv) Projector and screen

Select the correct answer from the codes given below:

- a) (i) and (ii) only b) (ii) and (iv) only c) (i), (ii) and (iii) only d) (i), (ii), (iii) and (iv)

17) The effective means in education communication is

- Options: a) Black Board Writing b) Audio-Visual means c) Audio means d) Visual means

18) Which of the following is not used in Non-Verbal communication?

- a) Gestures b) Body Language c) Face Expressions d) E-Mail

19) In the classroom, the teacher sends the message either as words or images. The students are really

- a) Encoders b) Decoders c) Agitators d) Propagators

20) Assertion (A): Mass media promote a culture of violence in the society.

Reason (R): Because violence sells in the market as people themselves are violent in character.

- 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) Both (A) and (R) are false.

Chapter 5 – Mathematical Reasoning and Aptitude : Number series, Letter Series, Codes, Relationships and Clarification.

21) Which one of the following is correct?

- (A) $(17)_{10} = (17)_{16}$ (B) $(17)_{10} = (17)_8$ (C) $(17)_{10} = (10111)_2$ (D) $(17)_{10} = (10001)_2$

22) Let A means Minus (-) B means Multiplied(x) C means Divided by (/) D means Plus (+),

The value of $90D9A29C10B2C$ is?

- a) 8 b) 10 c) 12 d) 14

23) The next number in the series 2, 5, 9, 19, 37, ? will be

- a) 74 b) 75 c) 76 d) None of the above

24) What will be the next term in the following? DCXW, FEVU, HGTS, ?

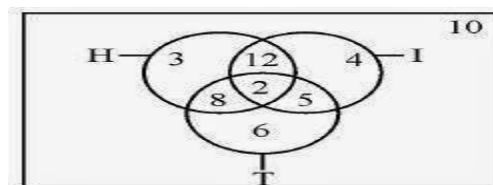
- (A) AKPO (B) ABYZ (C) JIRQ (D) LMRS

25) Three individuals X, Y, Z hired a car on a sharing basis and paid Rs. 1,040. They used it for 7, 8, 11 hours, respectively. What are the charges paid by Y?

- a) Rs. 290 b) Rs. 320 c) Rs. 360 d) Rs. 44

Chapter 6 - Logical Reasoning: Understanding the structure of argument statement & argument task, verbal analogies, Verbal Clarification, Reasoning Logical Diagrams, Venn diagram, Analytical Reasoning.

Questions from 26-27 are based on the following diagram in which there are three intersecting circles. H representing The Hindu, I representing Indian Express and T representing The Times of India. A total of 50 persons were surveyed and the number in the Venn diagram indicates the number of persons reading the newspapers.



26) How many persons would be reading at least two newspapers?

- a) 23 b) 25 c) 27 d) 29

27) How many persons would be reading almost two newspapers?

- a) 23 b) 25 c) 28 d) 49

28) Choose the correct answer from below :

Assertion (A) : There are more laws on the books today than ever before, and more crimes being committed than ever before.

Reason (R) : Because to reduce crime we must eliminate the laws.

- a) (A) is true, (R) is doubtful and (R) is not the correct explanation of (A).
b) (A) is false, (R) is true and (R) is the correct explanation of (A).
c) (A) is doubtful, (R) is doubtful and (R) is not the correct explanation of (A).
d) (A) is doubtful, (R) is true and (R) is not the correct explanation of (A).

29) Two Women and two men are playing bridge and seated at North, East, South and West of a table. No woman is facing East. Persons sitting opposite to each other are not of the same gender. One man is facing South. Which direction are the women facing to?

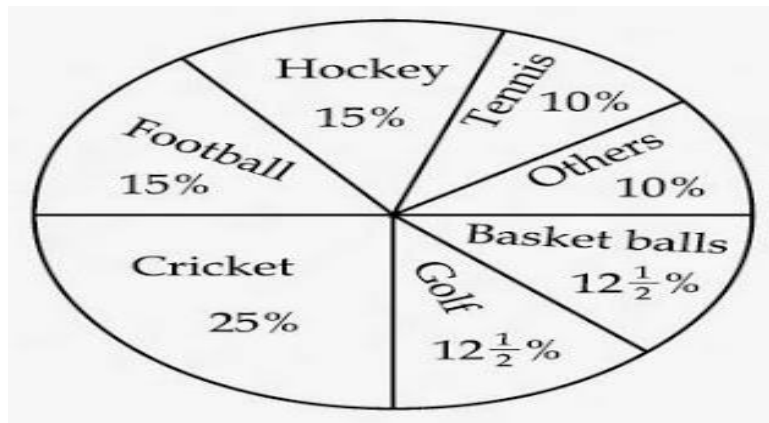
- a) East and West b) North and West c) South and East d) None of these

30) January 12, 1980 was Saturday, what day was January 12, 1979:

- a) Saturday b) Friday c) Sunday d) Thursday

Chapter 7–Data Interpretation: Sources Acquisition and Interpretation of data, Quantitative & Qualitative data, Graphical representation & Mapping data.

The following pie chart indicates the expenditure of a country on various sports during a particular year. Study the pie chart and answer it Question Number 31-35.



31) 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

32) if the total expenditure on sports during the year was Rs. 1,20,000,00 how much was spent on basket ball?

- a) Rs. 9,50,000 b) Rs. 10,00,000 c) Rs. 12,00,000 d) Rs. 15,00,000

33) The chart shows that the most popular game of the country is :

- a) Hockey b) Football c) Cricket d) Tennis

34) Out of the following country's expenditure is the same on :

- a) Hockey and Tennis b) Golf and Basket ball c) Cricket and Football d) Hockey and Golf

35) If the total expenditure on sport during the year was Rs. 1,50,00,000 the expenditure on cricket and hockey together was:

- a) Rs. 60,00,000 b) Rs. 50,00,000 c) Rs. 37,50,000 d) Rs. 25,00,000

Chapter 8 – Information & Communication Technology: ICT, Meaning, Advantages, Disadvantages, Uses, General abbreviations and Terminology Basics of Internet, Intranet, E-mail, Audio and Video-conferencing., Digital initiatives in higher education, Governance.

36) Which one is not Video conferencing Platform ?

- a) GoToMeeting b) ZOOM c) Google sites d) Google Meet

37) A Terabyte is equal to

- a) 1024 Megabytes b) 1024 Kilobytes c) 1024 Gigabytes d) 1024 Bytes

38) GIF, JPG, BMP, PNG are used as extensions for files which store

- a) Audio data b) Image data c) Video data d) Text data

39) Binary equivalent of decimal number 35 is

- (A) 100011 (B) 110001 (C) 110101 (D) 101011

40) Libre Office is a

- a) Proprietary Software b) Open Source Software c) Partial commercial software d) None of the above

Chapter 9- People ,Development and Environment: *Development and environment, Human and environment interaction, Environmental issues, Impacts of pollutants on human health. Natural and energy resources, Natural hazards and disasters*

41) Volcanic eruptions affect

- (A) atmosphere and hydrosphere (B) hydrosphere and biosphere
(C) lithosphere, biosphere and atmosphere (D) lithosphere, hydrosphere and atmosphere

42) Climate change has implications for

- a) soil moisture b) forest fires c) biodiversity d) ground water

Identify the correct combination according to the code:

- a) a & c b) a, b & c c) a,c & d d) a,b,c & d

43) Identify the correct sequence of energy sources in order of their share in the power sector in India :

- (A) Thermal > nuclear > hydro > wind (B) Thermal > hydro > nuclear > wind (C) Hydro > nuclear > thermal > wind (D) Nuclear > hydro > wind>thermal

44) Which of the following statement(s) is/are not correct about the Attorney General of India?

1. The President appoints a person, who is qualified to be a Judge of a High Court, to be the Attorney General of India.
2. He has the right of audience in all the Courts of the country.
3. He has the right to take part in the proceedings of the Lok Sabha and the Rajya Sabha.
4. He has a fixed tenure.

Select the correct answer from the codes given below : Codes :

- (A) 1 and 4 (B) 2, 3 and 4 (C) 3 and 4 (D) 3 only

45) Constitutionally the registration and recognition of political parties is the function performed by

- (A) The State Election Commission of respective States
(B) The Law Ministry of Government of India
(C) The Election Commission of India
(D) Election Department of the State Governments

Chapter10-Higher Education System: *Institutions of higher learning and education in ancient India, Evolution of higher learning and research in Post Independence India, Oriental, Conventional and Non-conventional learning programmes in India, Professional, Technical and Skill Based education, Value education and environmental education, Policies, Governance, and Administration.*

46) Which of the following are the objectives of Rashtriya Uchchar Shiksha Abhivan (RUSA)?

- (i) To improve the overall quality of state institutions. (ii) To ensure adequate availability of quality faculty.
- (iii) To create new institutions through upgradation of existing autonomous colleges.
- (iv) To downgrade universities with poor infrastructure into autonomous colleges.

Select the correct answer from the codes given below:

- a) (i), (ii), (iii) and (iv) b) (i), (ii) and (iii) c) (i), (iii) and (iv) d) (i), (ii) and (iv)

47) Vidwan database is associated to

- a) Higher education b) Faculty c) Students d) Researchers

48) How many Universities targeted to select UGC MHRD, under “Institute Of Eminence” Status in India, to achieve world class status?

- a) 10 b) 20 c)19 d)15

49) **Shodh shuddhi project:** Enriching research quality is a project launched to provide

- a) Research reporting b) Access E-Resources to selected Universities
- c) Research in progress d) Plagiarism detection software to all Indian Universities

50) Over Best university in **National Institution Ranking Framework 2020?**

- a)IIT Delhi b) IISC Bangalore c) IAS Shimla d) IIT Madras

Answer Keys:

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