GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
(A State University established by Govt. of NCT of Delhi)
SECTOR 16C, DWARKA, NEW DELHI-110078

CONTROLLER OF EXAMINATIONS

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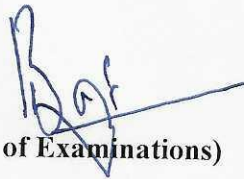
Dated: 24.08.2025

NOTIFICATIONS

Notice: Inviting objections (if any) with regards to Question Paper and Answer Key for examination to the post of Research Associate for NIDM, held on 24/08/2025.

This is for information of all the Candidates who appeared in examination to the post of Research Associate for NIDM, held on 24/08/2025, conducted by GGSIP University, that the Question Paper & Answer Key has already been uploaded on the University's website and will remain available till 05:00 PM 27/08/2025. All the candidates who wish to raise objection (if any), may raise objection by sending an email to coe2@ipu.ac.in by paying fee of Rs.200/- per question in the account as per details given below.

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Note :

1. Objection will only be considered after receipt of requisite fee of Rs.200/- per question.
2. You are requested to attach the fee payment receipt /transaction statement in the email.
3. In case objection is found valid, the fee paid shall be refunded.

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Copy to:

1. Finance Officer, GGSIPU for information and necessary action.
2. AAO with the request to upload the same on website of Recruitment, NIDM.

Note: The Correct Option is marked in bold

General Instructions for the candidate

1. **This test booklet contains 100 multiple choice questions. Each question has 4 alternative choices marked as a, b, c and d. The candidate must choose the most appropriate option out of the four alternatives. The candidate must attempt all questions.**
2. **For each correct answer, four marks will be awarded and one mark will be deducted for each incorrect answer. No marks will be awarded or deducted for unanswered question.**
3. **The duration of test is two hours (120 minutes).**

Q1 The compound interest on a sum for 2 yrs is ₹ 832 and the simple interest on the same sum at the same rate for the same period is ₹ 800. What is the rate of interest?
    a. 6%
    b. 10%
    c. 12%
    d. 8%

Q2 A and B completed a work together in 5 days. Had A worked at twice the speed and B at half the speed, it would have taken the 4 days to complete the job. How much time would it take for A alone to do the work?
    a. 20 days
    b. 10 days
    c. 15 days
    d. 25 days

Q3 Four taps can individually fill a cistern of water in 1h, 2h, 3h and 6h respectively. If all the four taps are opened simultaneously, the cistern can be filled in how many minutes?
    a. 20
    b. 30
    c. 35
    d. 40

Q4 Three numbers A, B and C are in the ratio 12 : 15 : 25. If sum of these numbers is 312, the ratio between the difference of B and A and the difference of C and B is
    a. 3 : 7
    b. 10 : 3
    c. 3 : 10
    d. 5 : 1

Q5 If x is the mean proportional between 12.8 and 64.8 and y is the 3rd proportional to 38.4 and 57.6, then 2x : y is
    a. 2 : 3
    b. 1 : 2
    c. 3 : 4
    d. 4 : 5

Q6 The HCF and LCM of two numbers are 21 and 4641 respectively. If one of the numbers lies between 200 and 300, then the two numbers are
    a. 273, 357
    b. 273, 361
    c. 273, 359
    d. 273, 363

Q7 The mean of 50 numbers is 30. Later it was discovered that two entries were wrongly entered as 82 and 13 instead of 28 and 31. Find the correct mean.
    a. 29.28
    b. 30.82
    c. 30.72
    d. 48.53

Q8   How many terms are there in the AP 3, 7, 11,………,51?
        a.   23
        b.   16
        c.   13
        d.   None of these

Q9   A bag contains 3 black, 4 white and 5 red balls. Two balls are taken out at random. Find the probability that both of them are black or white.
        a.   3/22
        b.   7/12
        c.   1/12
        d.   5/22

Q10   What is the number whose 20% is 30% of 40?
        a.   90
        b.   60
        c.   80
        d.   50

Q11   In which year *Kalibangan,* an Indus valley site was discovered?
        a.   1931
        b.   1954
        c.   1961
        d.   1972

Q12   Which of the following is not a text included in the earliest Buddhist scriptures?
        a.   Vinaya Pitaka
        b.   Gnana Pitaka
        c.   Sutta Pitaka
        d.   Abhidhamma Pitaka

Q13   Which of the following is true about *Mudrarakshasa* written by Vishakhadatta?
        a.   It is a treatise on grammar of Sanskrit
        b.   It is a book related to *mudras* depicted by the exponents of classical dance forms
        c.   It is a play which explores the themes of power, loyalty, deception and complexities of governance in ancient India
        d.   It is a treatise on the science of printing during ancient period

Q14   Who among the following Sikh Gurus founded Amritsar?
        a.   Guru Amardas
        b.   Guru Arjun Dev
        c.   Guru Angad
        d.   Guru Ramdas

Q15   Which of the following is/are examples of the phenomenon of Total Internal Reflection (TIR)?
        a.   Optical Fibre
        b.   Mirage
        c.   Sparkling of diamond
        d.   All of the above

Q16   World Ozone Day is observed on _____
   a. 4ᵗʰ September
   b. 10ᵗʰ September
   c. 16ᵗʰ September
   d. 28ᵗʰ September

Q17   Which one of the following is the short form of Israel currency?
   a. Shekel
   b. Peso
   c. Krone
   d. Forint

Q18   Which one of the following is the longest dam in India?
   a. Tehri Dam
   b. Bhakra Nangal Dam
   c. Hirakud Dam
   d. Nagarjuna Sagar

Q19   The fuel with highest calorific value among the following is _____
   a. Petrol
   b. Hydrogen gas
   c. Water gas
   d. Producer gas

Q20   Who among the following are not included in the electoral college for the election of Vice-President of India?
   a. Elected members of Rajya Sabha
   b. Elected members of Lok Sabha
   c. Nominated members of Rajya Sabha
   d. Elected members of State Assemblies

Q21   Both the parties have followed a <u>dovish</u> approach during the negotiations
   What is the meaning of the underlined word in the sentence above?
   a. Aggressive
   b. Accommodative
   c. Stubborn
   d. Dominating

Q22   What is the meaning of the word BLITHSOME?
   a. Arrogant
   b. Boasting
   c. Cheerful
   d. Negligent

Q23   Which of the following words is an antonym of the word PLATITUDE?
   a. Profound
   b. Peaceful
   c. Plain
   d. Insipid

Q24 Identify the error part in the sentence below, if any.
The principal as well as (A)/ teachers were honoured (B)/by the management committee. (C)/
No error(D)
   a. A
   b. B
   c. C
   d. D

Q25 Identify the error part in the sentence below, if any.
His aim is no more (A)/ than to use unethical means (B)/ to attain success in life. (C)/ No error.
(D)
   a. A
   b. B
   c. C
   d. D

Q26 Identify the error part in the sentence below, if any.
Hundred rupees were (A)/ considered a large sum (B)/ five decades ago. (C)/ No error (D)
   a. A
   b. B
   c. C
   d. D

Q27 Identify the error part in the sentence below, if any.
Seldom have we been (A)/ treated in such a rude manner (B)/ by the teachers. (C)/ No error (D)
   a. A
   b. B
   c. C
   d. D

Q28 Which of the following words denote the expression 'an eccentric manner of living'?
   a. Bohemian
   b. Nomadic
   c. Eclectic
   d. Blizzardy

Q29 Which of the following words is used to refer to the pieces of wood and other waste materials
found on the beach or floating on the sea?
   a. Trash
   b. Wreckage
   c. Flotsam
   d. Floaters

Q30 The extreme and overwhelming fear of dogs is called _____
   a. Rabies phobia
   b. Papaphobia
   c. Kynophobia
   d. Cynophobia

Q31   Which of the following is not true about RAM?
        a.   RAM is the same as hard disk storage
        b.   RAM is a temporary storage area
        c.   RAM is volatile
        d.   RAM is a primary memory

Q32   What is the full form of PROM?
        a.   Programmable Read Only Memory
        b.   Program Read Output Memory
        c.   Program Read Only Memory
        d.   Primary Read Only Memory

Q33   Which among the following is another name for a group of 4 bits?
        a.   Nibble
        b.   Byte
        c.   Kilobyte
        d.   Megabyte

Q34   Which of the following provides computing and storage capacity services to heterogeneous community of end recipients?
        a.   Cloud computing
        b.   Big data
        c.   Future skills
        d.   Robotics

Q35   The binary equivalent of decimal number 98 is _____.
        a.   1110001
        b.   1110100
        c.   1100010
        d.   1111001

Q36   Two inputs *A* and *B* of NAND gate have 0 output, if _____.
        a.   A is 0
        b.   B is 0
        c.   Both are zero
        d.   Both are 1

Q37   A collection of various programs that helps to control your computer is called _____.
        a.   system software
        b.   application software
        c.   Microsoft Excel
        d.   Microsoft Word

Q38   Example(s) of open-source software is/are:
        a.   Linux
        b.   Python
        c.   MySQL
        d.   All of these

Q39 Which language is CPU dependent?
    a. C
    b. Assembly
    c. Java
    d. All except Java

Q40 Python is a _____.
    a. low level language
    b. high level language
    c. machine language
    d. assembly language

Q41 Assertion(A): An experimental study is based on establishing the spurious type of causal relationship.
    Reason(R) : All the experimental studies have a spurious relationship between the independent and dependent variables.
    a. Both A and R are false.
    b. Both A and R are true, but R is not the correct explanation for A.
    c. Only A is true.
    d. Both A and R are true, and R is the correct explanation for A.

Q42. Random sampling is useful as it is:
    a. Reasonably accurate
    b. Freedom from personal biases
    c. An economical method of data collection
    d. All of the above.

Q43. Which of the following research types establishes a link between the theoretical and practical aspects of research to drive new changes?
    a. Phenomenological research
    b. Action research
    c. Narrative research
    d. Cohort Study

Q44. Which of the following policies is not included in Ethical Norms?
    i) Copyright ii) Patent Right iii) Researcher's Qualification iv) Report Description Format
    a. (i) &(ii)
    b. All of these
    c. None of these
    d. iii) & (iv)

Q45. "Researchers use Richter scale to check intensity of an Earthquake". What Research method is used in the given statement?
    a. Case Study
    b. Survey
    c. Observation
    d. Experiments

Q46. 'More concise, only absolutely required information' is presented in _____.
    a. Dissertation
    b. Articles
    c. Thesis
    d. Both 1 and 3

Q47. Which method is commonly used for collecting qualitative data?
    a. Survey
    b. Experiment
    c. Observation
    d. Interview

Q48. The ability of a research instrument to measure what it is intended to measure is known as ___.
    a. Reliability
    b. Sensitivity
    c. Validity
    d. Specificity

Q49. Which of the following can be used to test the goodness of fit?
    a. Chi-square test
    b. T-test
    c. ANOVA
    d. Correlation coefficient

Q50. The Bonferroni correction in multiple testing is used to:
    a. Increase Type I error
    b. Increase power
    c. Reduce the chance of the false positive Type I error
    d. Simplify data analysis

Q51. Which of the following are categorised as non-parametric tests?
i. Mann-Whitney test
ii Kruskal-Wallis test
iii. F-test and T-test
iv. Chi-square test
    a. i, ii, iii
    b. ii, iii
    c. iii, iv, i
    d. i, ii, iv

Q52. Which one of the following is not a characteristic of normal distribution?
    a. Bell-shaped and systematic
    b. Mean, Median, and Mode of the distribution are equal
    c. The total area under the curve for the normal probability distribution is one
    d. The two tails of the distribution in both directions touch the horizontal line

Q53. The term (1-β) is called
   a. Level of the test
   b. Power of the test
   c. Size of the test
   d. None of the above

Q54. Cronbach's Alpha is used to measure:
   a. External validity
   b. Effect size
   c. Sampling adequacy
   d. Reliability (internal consistency)

Q55. The Bartlett's Test of Sphericity in factor analysis checks:
   a. Rotation method suitability
   b. Number of factors to retain
   c. If the correlation matrix is an identity matrix
   d. Sampling adequacy

Q56. Wilks' Lambda in discriminant analysis is used to:
   a. Test the significance of the discriminant function
   b. Measure multicollinearity
   c. Estimate classification accuracy
   d. Identify outliers

Q57. The measure of distance most commonly used in hierarchical cluster analysis is:
   a. Mahalanobis distance
   b. Chi-square distance
   c. Levenshtein distance
   d. Euclidean distance

Q58. Basic ethical principles and guidelines for research are available _____.
   a. Belmont Report
   b. Finance report
   c. Research Report
   d. None of the above

Q59. Triangulation in research means:
   a. Using multiple methods to study a problem
   b. Using three samples
   c. Using three tools
   d. Using three hypotheses

Q60. Dramaturgical interviewing is a technique of doing research by
   a. case study
   b. Sampling
   c. Planning
   d. Role playing

Q61   Mitigation in disaster management involves _____
    a. responding to disasters after they occur
    b. providing relief to disaster victims
    c. assessing the damage caused due to the disaster
    d. reducing the impact of hazards through proactive risk reduction measures

Q62.   What is the name of instrument used for measuring earthquake intensity?
    a. Modified Mercalli Scale
    b. Metrological scale
    c. Vernier scale
    d. Barometer

Q63   Who are the first responders in disaster management situations?
    a. Central Government
    b. State Government
    c. Local Government
    d. Community

Q64   What causes the stress in the Earth's crust that leads to earthquakes?
    a. Thermal expansion of the Earth's core
    b. Gravitational pull of the moon
    c. Rotation of the Earth
    d. Contact and movement of tectonic plates

Q65   What is the process called when existing buildings are modified to make them more earthquake resistant?
    a. Retrofitting
    b. Renovation
    c. Reinforcement
    d. Reconstruction

Q66   Cyclones that occur in the Northwest Pacific Ocean are generally called _____
    a. Typhoons
    b. Hurricanes
    c. Tropical Cyclones
    d. Willie-Willie

Q67   Which one of the following is a feature of a 'slow-onset' disaster?
    a. Its impacts are visible from the onset of the disaster
    b. It has a short-term impact on a limited geographic area
    c. It is difficult to measure its impact.
    d. Its impact is such that the relief efforts cannot be undertaken swiftly thus slowing down relief and rescue operations.

Q68   Punishment for obstruction of duties related to disaster management is provided u/s _____
    a. 47 of NDMA Act 2005
    b. 51 NDMA Act 2005
    c. 57 of NDRF Rules 2005
    d. 60 BNS 2023

Q69   The District Disaster Management Authority includes how many maximum members (excluding chairperson)?
        a.   5
        b.   6
        c.   7
        d.   10

Q70   The guiding principle of India's disaster management policy is:
        a.   Post-disaster relief
        b.   Rescue and response
        c.   Proactive risk reduction
        d.   International dependency

Q71   Which global body is responsible for coordinating humanitarian responses to disasters and emergencies worldwide?
        a.   UNFCCC
        b.   WHO
        c.   UN-OCHA
        d.   UNESCO

Q72   Which natural disaster prompted the first cyclone warning system in India?
        a.   Odisha Super Cyclone (1999)
        b.   Tsunami (2004)
        c.   The Cyclone Bhola (1970)
        d.   Kerala Floods (2018)

Q73   What does the formula "Risk = Hazard × Vulnerability" fail to account for in its basic form?
        a.   Impact scale
        b.   Capacity and resilience
        c.   Historical context
        d.   Environmental change

Q74   A slow-onset hazard becomes a chronic risk when:
        a.   It causes large-scale fatalities
        b.   Institutional inaction allows compounding effects
        c.   Aid is provided only after its peak
        d.   It turns into a biological disaster

Q75   The key limitation of the Traditional Disaster Management approach is:
        a.   Lack of financial modeling
        b.   Absence of legal basis
        c.   Overemphasis on response and recovery phases
        d.   Ignoring external international factors

Q76   Which of the following is NOT a logical model of disaster management?
        a.   Expand & Control Model
        b.   Tuscaloosa Model
        c.   Pressure & Release Model
        d.   Circular Model

Q77.   Which of the following is/are considered "structural mitigation" measures?
        a.   Public awareness campaigns
        b.   Risk mitigation through mandatory insurance
        c.   Both a & b
        d.   Neither a nor b

Q78   SAHANA software was originally developed in response to which disaster?
        a.   Gujarat Earthquake
        b.   2004 Indian Ocean Tsunami
        c.   Uttarakhand Floods
        d.   Bangladesh Cyclone (1991)

Q79   What is India's rank in terms of disaster risk according to the World Risk Index 2024?
        a.   3rd
        b.   1st
        c.   5th
        d.   7th

Q80   "Hazard-Vulnerability-Capacity Mapping" is essential for:
        a.   Creating fire exits
        b.   Media coverage
        c.   District-level disaster planning
        d.   Emergency food storage

Q81   Which international practice is closest to India's NDMA in terms of mandate?
        a.   Red Cross
        b.   FEMA (USA)
        c.   IFRC
        d.   SAARC DM Unit

Q82   The Latur Earthquake (1993) challenged which earlier assumption in Indian seismology?
        a.   Himalayas are tectonically inactive
        b.   Peninsular India is seismically stable
        c.   Earthquakes only occur in coastal areas
        d.   Nuclear testing causes tremors

Q83   Which traditional Indian text most closely aligns with early state-centric disaster management roles like rationing, relocation, and protection?
        a.   Manusmriti
        b.   Arthashastra
        c.   Rigveda
        d.   Upanishads

Q84   International Decade for Natural Disaster Reduction (IDNDR) was declared by UN in:
        a.   1990
        b.   1985
        c.   2000
        d.   1995

Q85   Climate change and disaster risk reduction are linked by which of the following international agreement:
      a.   Kyoto Protocol
      b.   Paris Agreement
      c.   Doha Amendment
      d.   Montreal Protocol

Q86.   Which of the following is a qualitative method used in Hazard, Risk and Vulnerability Analysis?
      a.   GIS-based mapping
      b.   Remote sensing
      c.   Risk index modelling
      d.   Participatory rural appraisal

Q87   Out of the following which tool is most suitable for spatial analysis in Hazard Risk Vulnerability Analysis?
      a.   SWOT analysis
      b.   GIS mapping and modelling
      c.   Risk register
      d.   Delphi method

Q88.   Sendai Framework is closely aligned with which global agenda?
      a.   2030 Agenda for Sustainable Development
      b.   Agenda 21
      c.   UNFCCC
      d.   Global Compact on Migration

Q89   The primary cause/s for the Kedarnath disaster in 2013 was/were:
      a.   Unplanned construction of buildings and roads
      b.   Cloudburst and heavy rainfall
      c.   Deforestation
      d.   All of the above

Q90   Principle of Build Back Better in post-disaster reconstruction is best reflected in which of the following?
      a.   Enhancing resilience and reducing vulnerability
      b.   Restoring infrastructure to its original design
      c.   Rebuilding without considering future risks
      d.   Prioritizing rapid economic growth over safety

Q91   Recovery phase in disaster management cycle is associated with:
      a.   Damage assessment and rebuilding
      b.   Search and rescue
      c.   Hazard identification
      d.   Community awareness campaigns

Q92. Which phase of the disaster management cycle is most critical for building long-term resilience?
    a. Response
    b. Recovery
    c. Mitigation
    d. Preparedness

Q93 Which of the following is commonly done during the preparedness phase?
    a. GIS-based hazard mapping
    b. Emergency stockpiling
    c. Structural retrofitting
    d. Post-disaster needs assessment

Q94 Key objective of National Policy of Disaster Management is to?
    a. Promote sustainable development
    b. Minimize loss of life and property
    c. Increase knowledge of disasters
    d. Encourage corporate to help in relief activities

Q95 DM Act, 2005 mandates the creation of disaster management authorities at:
    a. National, State, and District
    b. National and State only
    c. State and district only
    d. Only National

Q96 CBRN is a type of
    a. Natural disaster
    b. Anthropogenic Disaster
    c. Both
    d. Neither a nor b

Q97 Which of the following is the nodal agency for early warning of Tsunami?
    a. INCOIS
    b. IMD
    c. CWC
    d. GSI

Q98 United Nations Disaster Relief Office (UNDRO) was established in the year
    a. 1951
    b. 1971
    c. 1991
    d. 2001

Q99   Which of the following is not a defining component of approach to India's Disaster Management Policy
   a.   A holistic and integrated approach
   b.   Multi-sectoral synergy
   c.   Community based Disaster management
   d.   Relief-centric approach

Q100   NDMA through _____ has prepared Upgraded Earthquake Hazard Maps and Atlases for India up to district level.
   a.   Geological Survey of India (GSI)
   b.   Indian Space Research Organization (ISRO)
   c.   Bharat Sanchar Nigam Limited (BSNL)
   d.   Building Materials and Technology Promotion Council (BMTPC)