# RRB NTPC Under Graduate CBT 1 – Question Paper with Answers

CEN 07/2025 · NTPC Under Graduate Level · Test date: 8 May 2026 · 9:00–10:30 AM · 100 questions · +1 correct, −1/3 wrong

## Mathematics

**Q.1** **If the salary of a person is first increased by 15% and thereafter decreased by 12%, what is the net change in his salary?**

**A.** 1.4% decrease
**B. 1.2% increase** ✓
**C.** 1.32% decrease
**D.** 1.2% decrease

Answer: B. 1.2% increase

**Q.2** **Evaluate $21^3 + (-2)^3 + (-19)^3$**

**A.** 2397
**B.** 2468
**C. 2394** ✓
**D.** 2354

Answer: C. 2394

**Q.3** **Which of the following numbers is not divisible by 88?**

**A.** 1232
**B.** 1144
**C.** 968
**D. 1058** ✓

Answer: D. 1058

**Q.4** **The average of 5 numbers is 18.5. If one number is removed, the average of the remaining 4 numbers becomes 16. Find the number that was removed.**

**A.** 28
**B.** 29.5
**C. 28.5** ✓
**D.** 29

Answer: C. 28.5

**Q.5** **The ages of a mother and daughter are 36 years and 12 years, respectively. In how many years will the mother be twice the age of the daughter?**

**A.** 15 years
**B.** 8 years
**C.** 10 years
**D. 12 years** ✓

Answer: D. 12 years

**Q.6** **The length of each edge of a cube is 10 cm. If a sphere is inscribed inside the cube, what is the ratio of the surface area of the sphere to the outer surface area of the cube?**

**A.** π : 3
**B. π : 6** ✓
**C.** 6 : π
**D.** 3 : π

Answer: B. π : 6

**Q.7** **Pipe A can fill a cistern in 12 hours and another pipe B can empty it in 18 hours. Pipe A is opened first and after 4 hours, pipe B is also opened. In how much total time will the cistern be filled?**

**A.** 36 hours
**B.** 32 hours
**C. 28 hours** ✓
**D.** 24 hours

Answer: C. 28 hours

**Q.8** **Which of the following ratios is the greatest?**
**a) 7 : 11**
**b) 9 : 14**
**c) 11 : 18**
**d) 13 :**

**A. 9 : 14** ✓
**B.** 11 : 18
**C.** 7 : 11
**D.** 13 : 21

Answer: A. 9 : 14

**Q.9** **Find the value of m which satisfies $(14/6)^8 \times (6/14)^3 \times (14/6)^{10} = (6/14)^{(9m + 9)}$.**

**A.** −28/9
**B.** −32/9
**C. −8/3** ✓
**D.** −25/9

Answer: C. −8/3

**Q.10** **If sinA = 5/7, find the value of (5 cosecA − 7 sinA) / (2√6 secA + 7 cos²A).**

**A.** 9/23
**B. 14/73** ✓
**C.** 3/19
**D.** 11/46

Answer: B. 14/73

**Q.11** **A sum of money amounts to ₹4,600 in 3 years at 5% simple interest per annum. What is the sum?**

**A.** ₹4,200
**B.** ₹3,800
**C.** ₹3,500
**D. ₹4,000** ✓

Answer: D. ₹4,000

**Q.12** **Which of the following pairs of numbers is not coprime?**

**A.** (127, 257)
**B.** (173, 351)
**C.** (177, 827)
**D. (171, 273)** ✓

Answer: D. (171, 273)

**Q.13** **Two buses start at the same time from two towns that are 264 km apart and travel towards each other along the same highway. The first bus travels at a speed of 22 km/h, while the second bus travels at a speed of 26 km/h. After how much time will they meet?**

**A.** 6.25 hours
**B.** 6.5 hours
**C. 5.5 hours** ✓
**D.** 5 hours

Answer: C. 5.5 hours

**Q.14** **If the simple interest on ₹5,000 for T years at 6% p.a. equals the simple interest on ₹7,500 for 4 years at 4% per annum, then find the value of T.**

**A. 4** ✓
**B.** 2
**C.** 1
**D.** 3

Answer: A. 4

**Q.15** **Chitra gets a discount of 40% on a water cooler whose marked price is ₹2,200. Since she pays by credit card, she gets an additional 20% discount. How much does she pay (in ₹)?**

**A.** 1,055
**B.** 1,059
**C.** 1,058
**D. 1,056** ✓

Answer: D. 1,056

**Q.16** **A student initially scored equal marks in Mathematics and Physics. Later, the marks in Mathematics increase by 20% of the original Mathematics marks, while the marks in Physics decrease by 10% of the original Physics marks. Taking the initial total marks as the base, what is the overall percentage change in the total marks?**

**A.** 10% increase
**B.** 5% decrease
**C. 5% increase** ✓
**D.** No change

Answer: C. 5% increase

**Q.17** **Simplify: (3 + √6) / (5√3 − 2√12 − √32 + √50)**

**A. √3** ✓
**B.** √5
**C.** √2
**D.** √6

Answer: A. √3

**Q.18** **The largest four-digit number which when divided by 15, 12 and 14 leaves remainder 5 in each case is:**

**A.** 9595
**B.** 9192
**C. 9665** ✓
**D.** 9988

Answer: C. 9665

**Q.19** **Three friends Arshdeep, Sandeep and Avtar are on a trip by a car. Arshdeep drives during the first 3 hours at an average speed of 52 km/hr. Sandeep drives during the next 4 hours at an average speed of 65 km/hr. Avtar drives for the next 3 hours at an average speed of 76 km/hr. They reached their destination after exactly 10 hours. Their average speed during the journey was:**

**A. 64.4 km/hr** ✓
**B.** 60.2 km/hr
**C.** 56.4 km/hr
**D.** 65.2 km/hr

Answer: A. 64.4 km/hr

**Q.20** **The present ages of two sisters are in the ratio 5:7. After 4 years, their ages will be in the ratio 6:8. Find the present age of the younger sister.**

**A.** 22 years
**B. 20 years** ✓
**C.** 18 years
**D.** 24 years

Answer: B. 20 years

**Q.21** **A cricketer has scored an average of 55 runs in 9 matches. In the $10^{th}$ match, he scores 85 runs. What is his new average?**

**A.** 57
**B. 58** ✓
**C.** 56
**D.** 55

Answer: B. 58

**Q.22** **A bookseller bought 7 identical sets of books at ₹375 each. He sold 3 sets at a profit of 16% per set and the remaining sets at a profit of 24% per set. What was his total profit (in ₹) from selling all the sets?**

**A.** ₹504
**B.** ₹588
**C. ₹540** ✓
**D.** ₹572

Answer: C. ₹540

**Q.23** **A group of 3 adults and 4 children pay ₹380 for movie tickets. Another group of 2 adults and 3 children pay ₹270 for the same tickets. What is the price of one adult ticket?**

**A.** ₹80
**B.** ₹50
**C. ₹60** ✓
**D.** ₹70

Answer: C. ₹60

**Q.24** **A Company produces 1,520 packets of noodles in 5 hours. How many packets will it produce in 17 hours at the same rate?**

**A.** 5,861
**B.** 5,816
**C. 5,168** ✓
**D.** 5,618

Answer: C. 5,168

**Q.25** **The sum of all interior angles of a regular polygon is 1800°. How many diagonals does the polygon have?**

**A.** 51
**B.** 50
**C.** 53
**D. 54** ✓

Answer: D. 54

**Q.26** **A, B, and C start a business by investing ₹60,000, ₹80,000, and ₹1,20,000, respectively.**
**After one year, the total profit earned is ₹78,000. By how much does C's share exceed B's share?**

**A.** ₹9,800
**B. ₹12,000** ✓
**C.** ₹9,400
**D.** ₹10,600

Answer: B. ₹12,000

**Q.27** **The diagonals of a rhombus are mutually perpendicular and bisect each other. One diagonal is 10 cm longer than the other. If the area of the rhombus is 600 cm², the perimeter (in cm) of the rhombus is:**

**A.** 96 cm
**B.** 84 cm
**C. 100 cm** ✓
**D.** 120 cm

Answer: C. 100 cm

**Q.28** **A shopkeeper offers two successive discounts of 18% and 15% on a frock whose marked price is ₹1,000. What is the final selling price (in ₹) of the frock?**

**A.** 679
**B.** 796
**C.** 769
**D. 697** ✓

Answer: D. 697

**Q.29** **A shopkeeper offers the following schemes on toys of the same marked price.**
**(A) Successive discounts of 43% and 19% on any number of toys bought.**
**(B) Successive discounts of 41%, 21% and 49% on any number of toys bought.**
**(C) 35% discount on the first 5 toys and 3% discount on each toy thereon.**
**(D) 4 toys free of cost on buying 5 toys.**
**A customer wants to buy 5 toys. Which of the above schemes is the least beneficial to her?**

**A.** D
**B.** A
**C.** B
**D. C** ✓

Answer: D. C

**Q.30** **A tank can be filled by pipe P in 8 hours and by pipe Q in 4 hours. If they open alternately for one hour each with Q starting first, what is the total time taken to fill the tank?**

**A. 5 hours** ✓
**B.** 4 hours and 40 minutes
**C.** 6 hours
**D.** 5 hours and 20 minutes

Answer: A. 5 hours

## General Awareness

**Q.31** **Which type of Centre-State relation is covered under Articles 245 to 255 of Part XI of the Indian Constitution?**

**A.** Financial relations
**B.** Judicial relations
**C. Legislative relations** ✓
**D.** Administrative relations

Answer: C. Legislative relations

**Q.32** **According to the World Bank's Travel and Tourism Economic Impact Research (EIR) of 2025, what was the contribution of the global tourism industry to the total Global Gross Domestic Product (GDP) in 2024?**

**A.** 20%
**B.** 15%
**C.** 12%
**D. 10%** ✓

Answer: D. 10%

**Q.33** **Which of the following sites is known for its paintings and sculptures, considered masterpieces of Buddhist art?**

**A.** Elephanta Caves
**B. Ajanta Caves** ✓
**C.** Bhimbetka Caves
**D.** Mawsmai Cave

Answer: B. Ajanta Caves

**Q.34** **Which of the following Schedules of the Indian Constitution contains provisions for administration of tribal areas in northeastern India?**

**A.** Third Schedule
**B.** Eleventh Schedule
**C. Sixth Schedule** ✓
**D.** Eighth Schedule

Answer: C. Sixth Schedule

**Q.35** **The Anti-Defection Law was introduced through which Constitutional Amendment?**

**A.** 73rd Amendment
**B.** 44th Amendment
**C.** 61st Amendment
**D. 52nd Amendment** ✓

Answer: D. 52nd Amendment

**Q.36** **Which of the following editions of the Seatrade Maritime Logistics Middle East (SMLME) conference opened on May 6, 2025 at the Dubai World Trade Centre?**

**A.** 9th
**B. 11th** ✓
**C.** 7th
**D.** 12th

Answer: B. 11th

**Q.37** **Why do noble gases exist as gases at room temperature, while halogens exist as solids, liquids, or gases down the group?**

**A.** Strong chemical bonds in noble gases
**B.** Larger atomic size of noble gases
**C. Weak intermolecular forces in noble gases** ✓
**D.** High reactivity of noble gases

Answer: C. Weak intermolecular forces in noble gases

**Q.38** **Which city's metro rail system's first phase was inaugurated on 6 October 2025, making it the 24th Indian city with a functional metro?**

**A.** Bhubaneswar
**B.** Kolkata
**C. Patna** ✓
**D.** Lucknow

Answer: C. Patna

**Q.39** **Which Late Harappan and Chalcolithic site in Maharashtra has yielded excellent examples of metal-cast sculptures?**

**A.** Chandoli
**B.** Tekwada
**C.** Inamgaon
**D. Daimabad** ✓

Answer: D. Daimabad

**Q.40** **In a sound wave traveling through air, which of the following terms refers to a region where the particles are crowded together, resulting in high pressure and high density?**

**A. Compression** ✓
**B.** Wavelength
**C.** Rarefaction
**D.** Crest

Answer: A. Compression

**Q.41** **A device driver acts as an interface between which two components?**

**A.** User and Computer
**B. Operating system and Hardware device** ✓
**C.** Software and User
**D.** CPU and Memory

Answer: B. Operating system and Hardware device

**Q.42** **In November 2025, which of the following brands partnered with the Board of Control for Cricket in India (BCCI) as Team India's official colour partner for a period of three years?**

**A.** Kansai Nerolac
**B.** Berger Paints
**C.** Nippon Paint
**D. Asian Paints** ✓

Answer: D. Asian Paints

**Q.43** **Which of the following is classified as a longitudinal valley located between the Lesser Himalaya and the Shiwaliks?**

**A. Dehra Dun** ✓
**B.** Kangra Valley
**C.** Patkai Hill Valley
**D.** Kullu Valley

Answer: A. Dehra Dun

**Q.44** **Who were the founding members of the 'Servants of India Society' along with Gopal Krishna Gokhale?**

**A.** A.O. Hume, Dadabhai Naoroji, Lala Lajpat Rai

**B.** Subhas Chandra Bose, Jawaharlal Nehru, Sardar Patel

**C. Natesh Appaji Dravid, Gopal Krishna Deodhar, Anant Vinayak Patwardhan** ✓

**D.** Rajendra Prasad, C.R. Das, Mahatma Gandhi

Answer: C. Natesh Appaji Dravid, Gopal Krishna Deodhar, Anant Vinayak Patwardhan

**Q.45** **Which of the following Union Territories had the lowest density of population according to Census 2011?**

**A.** Lakshadweep

**B. Andaman and Nicobar Islands** ✓

**C.** Puducherry

**D.** Chandigarh

Answer: B. Andaman and Nicobar Islands

**Q.46** **Gangaikondacholapuram was established as a capital city by which Chola ruler?**

**A. Rajendra I** ✓

**B.** Rajaraja I

**C.** Kulottunga I

**D.** Rajadhiraja I

Answer: A. Rajendra I

**Q.47** **Which of the following features at Lothal provides the most convincing evidence of its role as a maritime trading centre in the Harappan Civilization?**

**A.** A large warehouse located near the dock structure

**B.** Discovery of seals indicating contacts with distant regions

**C. A brick-built basin connected to an ancient river channel** ✓

**D.** Evidence of bead-making workshops within the settlement

Answer: C. A brick-built basin connected to an ancient river channel

**Q.48** **In which of the following countries did the One Health Summit take place from 5-7 April 2026?**

**A.** China

**B. France** ✓

**C.** Myanmar

**D.** Germany

Answer: B. France

**Q.49** **'Agenda 21' — a comprehensive action plan for sustainable development — was adopted at which international conference?**

**A.** 1972 – Stockholm Conference
**B. 1992 – Earth Summit, Rio de Janeiro** ✓
**C.** 1961 – Vienna Convention
**D.** 2016 – Kigali Agreement

Answer: B. 1992 – Earth Summit, Rio de Janeiro

**Q.50** **Which Part of the Indian Constitution deals specifically with the Union executive structure?**

**A.** Part VI
**B. Part V** ✓
**C.** Part IV
**D.** Part III

Answer: B. Part V

**Q.51** **Which of the following tunnels was recognised as the Longest Highway Tunnel above 10,000 feet by the World Book of Records in February 2022?**

**A.** Zojila Tunnel
**B.** Pir Panjal Tunnel
**C. Atal Tunnel** ✓
**D.** Chenani-Nashri Tunnel

Answer: C. Atal Tunnel

**Q.52** **In the context of computer hardware, what does the abbreviation "PCB" stand for?**

**A.** Primary Cache Buffer
**B.** Processor Control Base
**C. Printed Circuit Board** ✓
**D.** Peripheral Communication Bus

Answer: C. Printed Circuit Board

**Q.53** **In which year was the National seeds policy launched?**

**A.** 2000
**B. 2002** ✓
**C.** 2005
**D.** 2007

Answer: B. 2002

**Q.54** **V.S. Achuthanandan, who passed away in July 2025, was a prominent leader of which political party in India?**

**A.** Indian National Congress
**B.** Bharatiya Janata Party
**C. Communist Party of India (Marxist)** ✓
**D.** All India Trinamool Congress

Answer: C. Communist Party of India (Marxist)

**Q.55** **The Dashavatar Temple-Deogarh is important because it is an early example of which temple style?**

**A.** Vesara style
**B.** Rock-cut architecture
**C. Panchayatana Nagara temple** ✓
**D.** Dravida style

Answer: C. Panchayatana Nagara temple

**Q.56** **An image-editing program and a video-editing program both use the same shared library for color correction. Which advantage of modular application software does this situation show?**

**A. Code reusability across different applications** ✓
**B.** Removal of all dependencies
**C.** Increased redundancy
**D.** Guaranteed offline operation

Answer: A. Code reusability across different applications

**Q.57** **Which city hosted the Global Justice, Love and Peace Summit in April 2025?**

**A.** New Delhi
**B.** Oslo
**C. Dubai** ✓
**D.** Milan

Answer: C. Dubai

**Q.58** **Which of the following British officials was responsible for the annexation of Awadh, a major cause of resentment before 1857?**

**A.** Charles Metcalfe
**B.** Lord Canning
**C. Lord Dalhousie** ✓
**D.** Henry Lawrence

Answer: C. Lord Dalhousie

**Q.59** **Which characteristic correctly describes the Dual System of Administration established in Bengal after 1765?**

**A.** Revenue collection was handled solely by Mughal officials without Company control.

**B.** Criminal justice remained independent of Company supervision throughout.

**C. Revenue powers lay with the Company, while administrative responsibility lay with the Nawab.** ✓

**D.** Judicial authority was fully consolidated under the Company's direct rule.

Answer: C. Revenue powers lay with the Company, while administrative responsibility lay with the Nawab.

**Q.60** **Who among the following has been appointed as the Deputy Governor of the Reserve Bank of India in April 2025?**

**A.** Nidhi Tiwari

**B.** Dr. Jay Bhattacharya

**C.** Manan Kumar Mishra

**D. Dr. Poonam Gupta** ✓

Answer: D. Dr. Poonam Gupta

**Q.61** **The incidence of oral cancer in India is strongly linked to the frequent consumption of which of the following harmful substances?**

**A. Tobacco** ✓

**B.** Soft drinks

**C.** Fried food

**D.** High-salt diet

Answer: A. Tobacco

**Q.62** **The laws to provide for the representation of the Chairpersons of the Panchayats are made by _____.**

**A.** The Parliament of India

**B.** The President of India

**C.** Governor of State

**D. State Legislature** ✓

Answer: D. State Legislature

**Q.63** **In the Balance of Payments, an increase in foreign exchange reserves appears under which category?**

**A.** Current Account – Debit

**B.** Capital Account – Credit

**C.** Current Account – Credit

**D. Capital Account – Debit** ✓

Answer: D. Capital Account – Debit

**Q.64** **The Tri-Services Exercise (TSE-2025) “Trishul,” commencing in November 2025, is being led by which branch of the Indian Armed Forces?**

**A.** Indian Air Force
**B. Indian Navy** ✓
**C.** Indian Army
**D.** Indian Coast Guard

Answer: B. Indian Navy

**Q.65** **In which year did the Indian Parliament enact the Fiscal Responsibility and Budget Management Act to institutionalise financial discipline and ensure long-term macroeconomic stability?**

**A.** 2000
**B.** 2006
**C.** 2009
**D. 2003** ✓

Answer: D. 2003

**Q.66** **Which of the following is included among the water-soluble vitamins collectively grouped together in a specific vitamin class known as vitamin B complex?**

**A.** Tocopherol
**B.** Calciferol
**C. Thiamin** ✓
**D.** Retinol

Answer: C. Thiamin

**Q.67** **Directive Principles collectively aim to achieve which ideals prominently declared in the Constitution’s Preamble?**

**A. Justice, liberty, equality, fraternity** ✓
**B.** Unity, diversity and fraternity
**C.** Sovereignty, security and hierarchy
**D.** Property, privilege, hierarchy

Answer: A. Justice, liberty, equality, fraternity

**Q.68** **In the search box of File Explorer, which search pattern finds all Word documents in the current folder whose names start with “Unit”?**

**A.** Unit?.txt
**B.** *Unit.docx
**C.** Unit* .docx
**D. Unit*.docx** ✓

Answer: D. Unit*.docx

**Q.69** **In the context of Indian classical music, the term "Khayal" literally signifies which of the following?**

**A. Imagination or reflective thought** ✓
**B.** An expression of devotional sentiment
**C.** A melodic framework
**D.** A structured rhythmic pattern

Answer: A. Imagination or reflective thought

**Q.70** **Which of the following coastal plains is correctly matched with its state?**

**A.** Malabar Plain – Gujarat
**B. Utkal Plain – Odisha** ✓
**C.** Coromandel Plain – Kerala
**D.** Konkan Plain – Tamil Nadu

Answer: B. Utkal Plain – Odisha

## General Intelligence and Reasoning

**Q.71** **What should come in place of '?' in the given series based on the English alphabetical order?**
**GJE ZCX SVQ LOJ ?**

**A. EHC** ✓
**B.** BFU
**C.** LNJ
**D.** PRN

Answer: A. EHC

**Q.72** **In a certain code language, ‘steak tooth badge’ is coded as ‘qj hc sv’ and ‘badge poet lemon’ is coded as ‘tz qj wv’. How is ‘badge’ coded in that language? (All codes are two- letter codes.)**

**A.** sv
**B.** tz
**C. qj** ✓
**D.** hc

Answer: C. qj

**Q.73** **In a certain code language,**
**A @ B means 'A is the son of B',**
**A ≤ B means 'A is the wife of B',**
**A £ B means 'A is the father of B' and**
**A ≠ B means 'A is the brother of B'.**
**How is A related to P if 'A @ D £ J ≠ L ≤ P'?**

**A.** Wife's mother's mother
**B. Wife's brother** ✓
**C.** Wife's sister
**D.** Wife's mother

Answer: B. Wife's brother

**Q.74** **Tuv ranked 27th from the top and 64th from the bottom in his class. How many students are there in his class?**

**A.** 91
**B.** 92
**C. 90** ✓
**D.** 89

Answer: C. 90

**Q.75** **Seven people, Q, M, B, L, E, F and G, are sitting in a row, facing north. Only six people sit to the right of E. Only five people sit to the left of Q. Only three people sit between M and Q. B is the immediate neighbour of L and G. Only three people sit between F and L.**
**How many people sit between G and F?**

**A. One** ✓
**B.** Four
**C.** Three
**D.** Two

Answer: A. One

**Q.76** **Ayush ranked 44th from the top and 25th from the bottom in his class. How many students are there in his class?**

**A. 68** ✓
**B.** 66
**C.** 67
**D.** 69

Answer: A. 68

**Q.77** **Which of the following options should come in place of the '?' in the given series based on the English alphabetical order?**
**N 32, I 25, D 18, Y 11, ?**

**A. T 4** ✓
**B.** Z 4
**C.** S 4
**D.** Y 4

Answer: A. T 4

**Q.78** **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)**

**A.** FE−IH
**B.** LK−ON
**C.** CB−FE
**D. KJ−MO** ✓

Answer: D. KJ−MO

**Q.79** **Each vowel in the word REFERTILIZES is changed to the second letter immediately following it in the English alphabetical order, and each consonant is changed to the second letter immediately preceding it in the English alphabetical order. Which of the following letters will appear exactly twice in the group of letters thus formed?**

**A.** R
**B. K** ✓
**C.** X
**D.** G

Answer: B. K

**Q.80** **KY 1 is related to MU 17 in a certain way. In the same way, FI 8 is related to HE 24. To which of the following is RF 3 related, following the same logic?**

**A.** KL 5
**B.** KJ 7
**C. TB 19** ✓
**D.** YG 9

Answer: C. TB 19

**Q.81** **Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).**
**Statements:**
**All jokers are frogs.**
**All frogs are cars.**
**Conclusions:**
**(I) Some cars are frogs.**
**(II) All jokers are cars.**

**A.** Neither conclusion (I) nor (II) follows
**B. Both conclusions (I) and (II) follow** ✓
**C.** Only conclusion (II) follows
**D.** Only conclusion (I) follows

Answer: B. Both conclusions (I) and (II) follow

**Q.82** **What should come in place of '?' in the given series?**
**8 9 17 26 90 115 ?**

**A.** 313
**B. 331** ✓
**C.** 198
**D.** 231

Answer: B. 331

**Q.83** **Refer to the following series and answer the question. (All numbers are single digit numbers only. Counting has to be done from left to right).**
**(Left) 2 9 3 3 8 4 7 2 4 2 8 9 9 7 4 9 9 4 6 7 7 (Right)**
**How many such odd digits are there each of which is immediately preceded by an odd digit and also immediately followed by a perfect square?**
**(NOTE: 1 is also a perfect square)**

**A.** Three
**B. Two** ✓
**C.** Four
**D.** One

Answer: B. Two

**Q.84** **In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.**
**(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) 18, 109 17, 103**

**A.** 26, 130
**B.** 24, 155
**C. 22, 133** ✓
**D.** 19, 116

Answer: C. 22, 133

**Q.85** **Mr. Yorly starts from Point A and drives 6 km towards South. He then takes a right turn, drives 37 km, turns right and drives 42 km. He then takes a right turn and drives 47 km.**
**He takes a final right turn, drives 36 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again?**
**(All turns are 90 degrees turns only unless specified.)**

**A. 10 km to the West** ✓
**B.** 11 km to the North
**C.** 12 km to the East
**D.** 15 km to the South

Answer: A. 10 km to the West

**Q.86** **If 2 is added to each odd digit and 1 is subtracted from each even digit in the number 82135746, then what will be the difference between the first digit from the right end and the first digit from the left end in the new number thus formed?**

**A. 2** ✓
**B.** 6
**C.** 8
**D.** 4

Answer: A. 2

**Q.87** **If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 51748623, then how many digits will appear more than once in the new number thus formed?**

**A.** Four
**B.** Two
**C. Three** ✓
**D.** One

Answer: C. Three

**Q.88** **BFGJ is related to GKLO in a certain way based on the English alphabetical order. In the same way, HKMN is related to MPRS.**
**To which of the following is ORTU related, following the same logic?**

**A.** QEIY
**B. TWYZ** ✓
**C.** UXZA
**D.** SVXY

Answer: B. TWYZ

**Q.89** **What should come in place of '?' in the given series?**
**7 ? 19 31 47 67**

**A. 11** ✓
**B.** 16
**C.** 14
**D.** 18

Answer: A. 11

**Q.90** **X is the mother of F. F is the sister of T. U is the father of K. K is the husband of T. How is X related to U?**

**A. Son's wife's mother** ✓
**B.** Mother
**C.** Daughter
**D.** Son's wife's sister

Answer: A. Son's wife's mother

**Q.91** **Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the one that does not belong to that group?**
**(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)**

**A.** AE - GK
**B.** DH - JN
**C. KO - QV** ✓
**D.** HL - NR

Answer: C. KO - QV

**Q.92** **Based on the alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?**
**(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter cluster.)**

**A. PNK** ✓
**B.** DAY
**C.** OLJ
**D.** NKI

Answer: A. PNK

**Q.93** **Each of the digits in the number 84157639 is arranged in ascending order from left to right. The position of how many digits will remain unchanged as compared to that in the original number?**

**A.** One
**B. Two** ✓
**C.** None
**D.** Three

Answer: B. Two

**Q.94** **LM 5 is related to NL -14 in a certain way. In the same way, JK 9 is related to LJ -10. To which of the following is UV 11 related, following the same logic?**

**A.** NJ 9
**B.** GT 3
**C. WU -8** ✓
**D.** YT -7

Answer: C. WU -8

**Q.95** **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**
**HWR66 , MBW78 , RGB90 , WLG102 , ?**

**A.** BOL114
**B.** BQM114
**C.** EQL114
**D. BQL114** ✓

Answer: D. BQL114

**Q.96** **Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).**
**Statements:**
**All huts are villages.**
**No hut is a district.**
**Conclusions:**
**(I) No village is a district.**
**(II) Some districts are huts.**

**A.** Both conclusions (I) and (II) follow
**B.** Only conclusion (II) follows
**C. Neither conclusion (I) nor (II) follows** ✓
**D.** Only conclusion (I) follows

Answer: C. Neither conclusion (I) nor (II) follows

**Q.97** **Seven people A, B, D, J, O, T and Z are sitting in a row, facing north. Only one person sits to the right of A. Only three people sit between B and A. Only three people sit between T and J, neither of whom sits on the left end. D sits immediately to the right of Z. Only one person sits between T and O. Who sits immediately to the left of A?**

**A.** T
**B.** J
**C.** B
**D. D** ✓

Answer: D. D

**Q.98** **Refer to the following series and answer the question (all numbers are single digit numbers only).**
**(Left) 4 5 6 2 3 3 3 2 1 1 2 3 8 7 4 6 4 6 5 8 2 5 6 5 4 3 4 2 3 (Right)**
**How many such odd digits are there each of which is immediately preceded by an even digit and also immediately followed by an odd digit?**

**A.** ONE
**B. TWO** ✓
**C.** FIVE
**D.** NONE

Answer: B. TWO

**Q.99** **In a certain code language, 'COAL' is coded as '7649' and 'ALSO' is coded as '5967'.**
**What is the code for 'S' in the given code language?**

**A. 5** ✓
**B.** 9
**C.** 6
**D.** 7

Answer: A. 5

**Q.100** **Seven boxes M, N, O, P, X, Y and Z are kept one over the other but not necessarily in the same order. Only N is kept above P. Only two boxes are kept between P and X. Only O is kept below Y. Z is not kept immediately above X. Which box is kept second above M?**

**A. P** ✓
**B.** X
**C.** Z
**D.** O

Answer: A. P