RRB NTPC Under Graduate CBT 1 – Question Paper with Answers

CEN 07/2025 · NTPC Under Graduate Level · Test date: 14 June 2026 · 9:00–10:30 AM · 100 questions · +1 correct, −1/3 wrong

Mathematics

Q.1 **The price of an item is increased by 15% and then by 20%. Now the price of the item is decreased so that the overall effective increment in the price is 5%. The price is decreased approximately by ____%.**

A. 23.19
B. 21.93
C. 23.91 ✓
D. 21.39

Answer: C. 23.91

Q.2 **Arpit buys 3 bed sheets for ₹3,951. He sells the first at a profit of ₹300, the second at a loss of ₹50, and the third at a profit of ₹200. What is the overall profit or loss percentage?**
(Round off your result to two decimal places)

A. 10.93% loss
B. 10.93% profit
C. 11.39% loss
D. 11.39% profit ✓

Answer: D. 11.39% profit

Q.3 **₹9,520 is divided among X, Y, and Z in the ratio 1/2 : 1/4 : 5/16. What is the share of Y?**

A. ₹3,200
B. ₹2,240 ✓
C. ₹2,600
D. ₹4,000

Answer: B. ₹2,240

Q.4 **Find the value of (1/0.01) × {[(5/8) + (0.25)] × (4/5)}.**

A. 70 ✓
B. 0.7
C. 0.8
D. 80

Answer: A. 70

Q.5 **At a health club, 40% of the members are women and 60% of the members are men. If the average age of the men is 51 years and the average age of the women is 55 years, what is the average age (in years) of all the members?**

A. 60.9
B. 59.7
C. 52.6 ✓
D. 50.2

Answer: C. 52.6

Q.6 **A bus covers 150 km at 60 km/hr, 120 km at 80 km/hr, and 180 km at 90 km/hr without any stops. What is the average speed of the bus for the entire journey?**

A. 72 km/hr
B. 70 km/hr
C. 85 km/hr
D. 75 km/hr ✓

Answer: D. 75 km/hr

Q.7 **Two trains are moving in opposite directions at speeds of 36 km/h and 54 km/h. If their lengths are 100 m and 150 m, respectively, how much time will they take to cross each other completely?**

A. 15 seconds
B. 12 seconds
C. 8 seconds
D. 10 seconds ✓

Answer: D. 10 seconds

Q.8 **Find the surface area of a sphere of radius 7 cm. (Take π = 22/7)**

A. 484 sq cm
B. 616 sq cm ✓
C. 588 sq cm
D. 704 sq cm

Answer: B. 616 sq cm

Q.9 **The average of 6.5, 10.8, 19.9 and a is 18. The value of a is:**

A. 33.8
B. 36.8
C. 34.8 ✓
D. 35.8

Answer: C. 34.8

Q.10 **The price of sugar is increased by 3%. How much percent the consumption of sugar must be reduced so as not to increase the expenditure on sugar? (correct your answer to one decimal place)**

A. 1.7%
B. 2.6%
C. 2.9% ✓
D. 1.9%

Answer: C. 2.9%

Q.11 **The ratio of the age of a father and his son at present is 6:1. After 5 years from now, the ratio will become 7:2. Find the present age of the son.**

A. 4 years
B. 8 years
C. 7 years
D. 5 years ✓

Answer: D. 5 years

Q.12 **After successive discounts of 15% and 10%, a customer pays ₹3,672. What was the marked price?**

A. ₹4,750
B. ₹4,700
C. ₹4,800 ✓
D. ₹4,850

Answer: C. ₹4,800

Q.13 **If 27 and 81 are the first two terms of a proportion and the third proportional to these numbers is used as the length of a rectangle whose width is 4 units, what is the numeric value of the area of the rectangle?**

A. 972 ✓
B. 6561
C. 729
D. 486

Answer: A. 972

Q.14 **If $\cos x - \sin x = a$ and $\cos x + \sin x = b$, then the value of $(1 - \tan^2 x) / (1 + \tan^2 x)$ is**

A. $a^2 + b^2$
B. ab ✓
C. $a^2 - b^2$
D. $-ab$

Answer: B. ab

Q.15 **A new cuboid is formed by placing three cuboids of length 10.5 cm, breadth 6.4 cm, and height 2 cm, one on top of the other. What is the volume of the new cuboid?**

A. 403.2 cm³ ✓
B. 303.2 cm³
C. 503.2 cm³
D. 413.2 cm³

Answer: A. 403.2 cm³

Q.16 **The simple interest on a sum is 25% of the sum in 5 years. Find the rate of interest.**

A. 3%
B. 5% ✓
C. 25%
D. 4%

Answer: B. 5%

Q.17 **A person sold an article at a loss of 10%. Had he sold it for ₹60 more, he would have gained 5%. Find the cost price of the article.**

A. ₹400 ✓
B. ₹480
C. ₹420
D. ₹440

Answer: A. ₹400

Q.18 **A shopkeeper offers the following schemes on toys of the same marked price.**
(A) Successive discounts of 45% and 44% on any number of toys bought.
(B) Successive discounts of 36%, 41% and 45% on any number of toys bought.
(C) 49% discount on the first 4 toys and 19% discount on each toy thereon.
(D) 7 toys free of cost on buying 10 toys.
A customer wants to buy 10 toys. Which of the above schemes is the least beneficial to her?

A. B
B. D
C. C ✓
D. A

Answer: C. C

Q.19 **What is the smallest number that must be added to 45873 so that the sum is divisible by 11?**

A. 4
B. 6
C. 8 ✓
D. 9

Answer: C. 8

Q.20 **Two inlet pipes A and B can fill a cistern in 15 hours and 20 hours respectively. An outlet pipe C can empty the cistern in 30 hours. All three pipes are opened together, but the outlet pipe is closed after 5 hours. The total time (in hours) required to fill the cistern completely is**

A. 9 1/3
B. 9
C. 10 ✓
D. 9 2/3

Answer: C. 10

Q.21 **The sum of the digits of a two digit number is 11. If 27 is added to the number its digits are reversed. Find the ratio between the original number to the number obtained on reversing the digits.**

A. 36:59
B. 47:74 ✓
C. 13:17
D. 23:29

Answer: B. 47:74

Q.22 **ABCD is a quadrilateral in which AB ∥ DC, and E and F are the mid points of the diagonals AC and BD, respectively. If AB = 24 cm, BC = 62 cm, DC = 92 cm, and AD = 95 cm, then what is the length (in cm) of EF?**

A. 34 ✓
B. 29
C. 39
D. 36

Answer: A. 34

Q.23 **The simplified value of the expression $0.5^2 \times 5^5 \times 2^{-4} \times 4^4 \times 10^{-3} \div a$ is 1, then the value of a is _____.**

A. 12.5 ✓
B. 25
C. 6.25
D. 50

Answer: A. 12.5

Q.24 **Find the value of m which satisfies**
$(14/5)^{11} \times (5/14)^{17} \times (14/5)^{14} = (5/14)^{(3m + 7)}$

A. −25
B. −14
C. −7
D. −5 ✓

Answer: D. −5

Q.25 **Three numbers are in the ratio 11 : 3 : 2, and their LCM is 2706. Their HCF is:**

A. 41 ✓
B. 30
C. 50
D. 82

Answer: A. 41

Q.26 **A and B can do a piece of work in 12 days and 18 days, respectively. Both work for 2 days and then A leaves. How long (in days) will B take to complete the remaining work?**

A. 15
B. 14
C. 13 ✓
D. 12

Answer: C. 13

Q.27 **What is the correct ascending order of the following ratios?**
11:15, 23:55, 32:33, 4:11, 26:

A. 4:11, 23:55, 11:15, 26:35, 32:33 ✓
B. 4:11, 26:35, 11:15, 23:55, 32:33
C. 4:11, 11:15, 23:55, 26:35, 32:33
D. 4:11, 23:55, 26:35, 11:15, 32:33

Answer: A. 4:11, 23:55, 11:15, 26:35, 32:33

Q.28 **A sum of ₹10,000 is invested at a compound interest rate of 10% per annum for 2 years, compounded annually. What is the compound interest earned?**

A. ₹1,900
B. ₹2,000
C. ₹2,200
D. ₹2,100 ✓

Answer: D. ₹2,100

Q.29 **Evaluate $25^3 + (-20)^3 + (-5)^3$**

A. 7244
B. 7467
C. 7500 ✓
D. 7360

Answer: C. 7500

Q.30 **Meena and her mother visit a shop. The shopkeeper tells them that the price of 5 identical dresses is ₹4,955. Meena buys 9 such dresses. Find the total cost of the 9 dresses.**

A. ₹8,919 ✓
B. ₹8,199
C. ₹8,099
D. ₹8,991

Answer: A. ₹8,919

General Awareness

Q.31 **At the age of 92, Paul Biya became the world's oldest head of state after winning his eighth presidential term in October 2025. He is the president of which of the following countries?**

A. Chad
B. Nigeria
C. Sudan
D. Cameroon ✓

Answer: D. Cameroon

Q.32 **Under the proposed Budget, what is the fiscal deficit target for FY 2025-26?**

A. 6.2% of GDP
B. 5.0% of GDP
C. 4.4% of GDP ✓
D. 3.8% of GDP

Answer: C. 4.4% of GDP

Q.33 **Which of the following celebrated Sanskrit poets and playwrights was one of the Navaratnas in the court of Chandragupta II?**

A. Bhasa
B. Kalidasa ✓
C. Bana
D. Bhavabhuti

Answer: B. Kalidasa

Q.34 **What type of joint allows the widest range of movement, including medial and lateral rotation, as in the shoulder and hip?**

A. Pivot Joint
B. Ball and Socket Joint ✓
C. Hinge Joint
D. Gliding Joint

Answer: B. Ball and Socket Joint

Q.35 **Which process mainly helps in the formation of V-shaped valleys in mountainous regions?**

A. River erosion ✓
B. Wave action
C. Glacier movement
D. Wind erosion

Answer: A. River erosion

Q.36 **Which of the following organizations publishes the annual World Report 2025 reviewing global human rights practices?**

A. Human Rights Watch ✓
B. Amnesty International
C. United Nations Human Rights Council
D. International Criminal Court

Answer: A. Human Rights Watch

Q.37 **What modification was made to Article 171(1) of the Indian Constitution by the seventh amendment?**

A. Term one-fourth was replaced with one-half
B. Term one-third was replaced with one-fourth
C. Term one-fourth was replaced with one-third ✓
D. Term one-half was replaced with one-fourth

Answer: C. Term one-fourth was replaced with one-third

Q.38 **In which of the following states is the Ambubachi Mela held every year during the monsoon?**

A. Jharkhand
B. Bihar
C. Assam ✓
D. Chhattisgarh

Answer: C. Assam

Q.39 **Shi Yuqi, who won the men's singles final at the BWF World Championships held at Paris in August 2025, belongs to which country?**

A. Indonesia
B. Japan
C. Malaysia
D. China ✓

Answer: D. China

Q.40 **The word "Social Welfare" is primarily mentioned in which of the following Directive Principle of state policy?**

A. Article 38 ✓
B. Article 40
C. Article 41
D. Article 42

Answer: A. Article 38

Q.41 **Which Article of the Indian constitution provides for Council of Ministers to aid and advise the President in the exercise of his powers?**

A. Article 64
B. Article 94
C. Article 84
D. Article 74 ✓

Answer: D. Article 74

Q.42 **On April 9, 2025, the Reserve Bank of India's Monetary Policy Committee (MPC) announced a cut in the repo rate by:**

A. 100 basis points
B. 50 basis points
C. 25 basis points ✓
D. 75 basis points

Answer: C. 25 basis points

Q.43 **The Naval Anti-Ship missile (NASM-SR), tested in February 2025, has what special feature?**

A. Man-in-loop retargeting via infrared seeker ✓
B. Nuclear warhead
C. Underwater launch capability
D. Laser guidance from space

Answer: A. Man-in-loop retargeting via infrared seeker

Q.44 **Who is traditionally regarded as the author of the classical Tamil work 'Tirukkural'?**

A. Ilango Adigal
B. Avvaiyar
C. Thiruvalluvar ✓
D. Kambar

Answer: C. Thiruvalluvar

Q.45 **Which dancer given below, honoured with the Nritya Natak Sangeet Drishya Kala Akademy Award from the Government of West Bengal, is known for expertise in both Bharatanatyam and Mohiniyattam?**

A. Radha Reddy
B. Thankamani Kutty ✓
C. Elam Endira Devi
D. Aruna Mohanty

Answer: B. Thankamani Kutty

Q.46 **Why does iron replace copper when an iron nail is dipped in copper sulphate solution?**

A. Copper is insoluble in water
B. Iron is less reactive
C. Both are equally reactive
D. Iron is more reactive ✓

Answer: D. Iron is more reactive

Q.47 **Which branch of the monsoon brings rainfall to India's Western Coast?**

A. South-West Monsoon Arabian Sea branch ✓

B. North-East Monsoon

C. Western Disturbances

D. South-West Monsoon Bay of Bengal branch

Answer: A. South-West Monsoon Arabian Sea branch

Q.48 **Which of the following northern state crops is an example of Rabi crops?**

A. Cotton

B. Rice

C. Bajra

D. Wheat ✓

Answer: D. Wheat

Q.49 **At the 57th meeting of the Monetary Policy Committee (MPC) of the RBI held from 29 September to 1 October 2025, what decision was taken on the policy repo rate and stance?**

A. Repo rate kept at 5.50% with a neutral monetary policy stance ✓

B. Repo rate hiked to 6.00% with a hawkish monetary policy stance

C. Repo rate kept at 5.00% with a calibrated tightening stance

D. Repo rate cut to 4.50% with an accommodative stance

Answer: A. Repo rate kept at 5.50% with a neutral monetary policy stance

Q.50 **When was the Congress Socialist Party (CSP) formed within the Indian National Congress?**

A. 1952

B. 1947

C. 1942

D. 1934 ✓

Answer: D. 1934

Q.51 **According to the Ministry of Statistics and Programme Implementation (MoSPI), the Unemployment Rate (UR) for persons aged 15 years and above declined to _____ in November 2025.**

A. 4.4%

B. 4.6%

C. 4.5%

D. 4.7% ✓

Answer: D. 4.7%

Q.52 **The early Iron Age in North India is most prominently associated with which pottery culture?**

A. Painted Grey Ware and Northern Black Polished Ware ✓

B. Painted Grey Ware and Black-and-Red Ware

C. Ochre Coloured Pottery and Black Slipped Ware

D. Northern Black Polished Ware and Red Ware

Answer: A. Painted Grey Ware and Northern Black Polished Ware

Q.53 **Canal irrigation in India is most extensively developed in areas with:**

A. Coastal sandy soil

B. Desert regions with rocky terrain

C. Alluvial plains with perennial rivers ✓

D. High rainfall and steep slope

Answer: C. Alluvial plains with perennial rivers

Q.54 **A student mixes aqueous solutions of barium chloride and sodium sulphate. A white curd-like substance forms instantly. What type of chemical reaction is primarily responsible for this observation?**

A. Evolution of SO_2 gas during a displacement reaction

B. Redox reaction resulting in electron transfer

C. Decomposition of sodium sulphate by barium chloride catalyst

D. Precipitation reaction forming insoluble barium sulphate ✓

Answer: D. Precipitation reaction forming insoluble barium sulphate

Q.55 **The Eleventh Scheduled of the Constitution places how many functions within the purview of the Panchayati Raj bodies?**

A. 29 ✓

B. 32

C. 23

D. 35

Answer: A. 29

Q.56 **Globalisation of the Indian economy has NOT resulted in which of the following?**

A. Increased Consumer Choice

B. Technological Advancement

C. Global Integration

D. Negative Cultural Impact ✓

Answer: D. Negative Cultural Impact

Q.57 **Which achievement is correctly attributed to Vallabhbhai Patel during the freedom struggle?**

A. Leading the Bardoli Satyagraha that established him as the “Sardar” ✓

B. Organising the Punjab protests during the anti-Rowlatt agitations

C. Commanding the INA forces during the Burma campaign

D. Drafting the Lucknow Pact to unite moderates and extremists

Answer: A. Leading the Bardoli Satyagraha that established him as the “Sardar”

Q.58 **Which computing pioneer is credited with the concept of the "stored program architecture" (where both program instructions and data are held in the same memory), a design that forms the basis of nearly all modern computers?**

A. Blaise Pascal

B. Alan Turing

C. Charles Babbage

D. John von Neumann ✓

Answer: D. John von Neumann

Q.59 **In September 2025, what principle did the Supreme Court affirm in Competition Commission of India v. Kerala Film Exhibitors Federation?**

A. CCI may impose only monetary fines on enterprises

B. CCI orders need prior clearance from the Union Cabinet

C. CCI may drop cases against trade bodies at its discretion

D. CCI may impose remedies and fix liability on office-bearers ✓

Answer: D. CCI may impose remedies and fix liability on office-bearers

Q.60 **Which of the following is an animal that belongs to the Tundra type of natural vegetation?**

A. Iberian Lynx

B. Jackal

C. Walrus ✓

D. Desert horned viper

Answer: C. Walrus

Q.61 **Which of the following initiatives is primarily focused on enhancing road connectivity through expressways and economic corridors?**

A. Bharatmala Pariyojana ✓

B. Smart Cities Mission

C. PM Gati Shakti

D. Sagarmala Programme

Answer: A. Bharatmala Pariyojana

Q.62 **Which is the main difference between Sleep and Hibernate modes in Windows 11?**

A. Hibernate keeps programs open on the screen.

B. Sleep saves data on hard disk; Hibernate saves in RAM.

C. Sleep completely shuts down the system.

D. Sleep uses more power than Hibernate. ✓

Answer: D. Sleep uses more power than Hibernate.

Q.63 **Modern telecommunication systems use optical fibres to transmit data efficiently.**
Which optical phenomenon enables this high-speed data transmission?

A. Refraction of light

B. Total Internal Reflection ✓

C. Interference of light

D. Dispersion of light

Answer: B. Total Internal Reflection

Q.64 **According to the International Renewable Energy Agency (IRENA) RE Statistics 2025, India holds the 3rd global rank in the installed capacity of which renewable energy category?**

A. Wind Power

B. Solar Power ✓

C. Bio Power

D. Hydropower

Answer: B. Solar Power

Q.65 **Why were the early Congress leaders described as “Moderates” during the period 1885–1905?**

A. They adopted constitutional methods such as petitions and discussions to seek political reforms. ✓

B. They rejected council participation and insisted on mass mobilisation to secure wider reforms.

C. They pursued immediate self-rule through direct political confrontation with colonial authorities.

D. They supported organised resistance through secret groups to push for administrative changes.

Answer: A. They adopted constitutional methods such as petitions and discussions to seek political reforms.

Q.66 **Which case recognised judicial review as part of the basic structure?**

A. Minerva Mills case

B. Indra Sawhney case

C. Menaka Gandhi case

D. Keshavananda Bharati case ✓

Answer: D. Keshavananda Bharati case

Q.67 **Which of the following compositions in Hindustani music is especially associated with Sufi devotional music?**

A. Dhrupad

B. Tappa

C. Tarana

D. Qawwali ✓

Answer: D. Qawwali

Q.68 **Which of the following is the correct full form of CD?**

A. Compact Disk ✓

B. Central Data

C. Control Disk

D. Computer Drive

Answer: A. Compact Disk

Q.69 **According to the Constitution of India, the 'Right to Equality' is guaranteed under which exact set of five consecutive Articles?**

A. Articles 12, 13, 14, 15 and 16

B. Articles 23, 24, 25, 26 and 27

C. Articles 19, 20, 21, 22 and 23

D. Articles 14, 15, 16, 17 and 18 ✓

Answer: D. Articles 14, 15, 16, 17 and 18

Q.70 **Which computer application enables real-time inventory tracking using automated identification?**

A. Presentation software

B. Email-based notification

C. OCR-based text editing

D. RFID-driven supply chain systems ✓

Answer: D. RFID-driven supply chain systems

General Intelligence and Reasoning

Q.71 **If 2 is added to each odd digit and 2 is subtracted from each even digit in the number 7213546, what will be difference between the highest and lowest digits in the number thus formed?**

A. 9 ✓
B. 6
C. 8
D. 7

Answer: A. 9

Q.72 **Each of the digits in the number 9342156 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?**

A. None ✓
B. One
C. Three
D. Two

Answer: A. None

Q.73 **What should come in place of '?' in the given series?**
37 57 81 109 141 177 ?

A. 205
B. 211
C. 217 ✓
D. 214

Answer: C. 217

Q.74 **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. ON - QP
B. UT - WX ✓
C. SR - UT
D. LK - NM

Answer: B. UT - WX

Q.75 **Refer to the given letter series and answer the question that follows. Counting to be done from left to right only.**
(Left) O K I Y C R L U K V I E H L Y V O N Q O S Z (Right)
How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

A. 3
B. 2
C. 4
D. 1 ✓

Answer: D. 1

Q.76 **Each of the digits in the number 3164857 is arranged in ascending order from left to right. What will be the sum of the digits that are third from the left and third from the right in the new number thus formed?**

A. 9
B. 8
C. 10 ✓
D. 12

Answer: C. 10

Q.77 **Seven people, N, H, C, D, E, R and G, are sitting in a row, facing north. Only one person sits to the left of R. G sits fourth from the right end. Only two people sit between R and E. D sits to the immediate left of N. H does not sit to the left of C.**
How many people sit between C and D?

A. Two
B. Four ✓
C. Three
D. One

Answer: B. Four

Q.78 **Bablu is the husband of Chetna. Anita is the daughter of Bablu. Ekam is the brother of Anita. Manu is the son of Anita. Kunal is the brother of Manu. How is Chetna related to Kunal?**

A. Mother's mother ✓
B. Daughter
C. Father's mother
D. Mother

Answer: A. Mother's mother

Q.79 **Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. Only G is kept above A. Only two boxes are kept between A and C. Only D is kept below E. F is not kept immediately above C. How many boxes are kept between E and F?**

A. 4

B. 2 ✓

C. 3

D. 1

Answer: B. 2

Q.80 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**
HEP 27, MCN 41, RAL 55, WYJ 69, ?

A. CVH 83

B. BXG 81

C. BWH 83 ✓

D. AWG 81

Answer: C. BWH 83

Q.81 **Seven boxes, U, V, W, X, A, B and C, are kept one over the other, but not necessarily in the same order.**
Only U is kept below W. Only A is kept between V and X. Only C is kept between B and X. Box B is kept at the top-most position.
Which box is kept at the third position from the bottom?

A. V ✓

B. X

C. C

D. A

Answer: A. V

Q.82 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**
ZQF 19 , DUJ 28 , HYN 37 , LCR 46 , ?

A. PGV 55 ✓

B. QFU 60

C. QHU 57

D. RFW 52

Answer: A. PGV 55

Q.83 **Read the given statements 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 statements.**
Statement: All Corns are Cauliflowers. No Cauliflowers are Spinaches.
Conclusion (I): No Spinaches are Corns.
Conclusion (II): Some Spinaches are Corns.

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

Answer: B. Only conclusion (I) follows

Q.84 **Based on the English alphabetical order, three of the following four letter-clusters 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. GKN
B. QNJ ✓
C. BFI
D. PTW

Answer: B. QNJ

Q.85 **HI 26 is related to FF 11 in a certain way. In the same way, MG 22 is related to KD 7. To which of the following is KF 14 related, following the same logic?**

A. HC −1
B. IB −3
C. IC −1 ✓
D. HB −3

Answer: C. IC −1

Q.86 **R, E, A, D, I, N and G are sitting around a circular table, facing the centre of the table.**
D sits third to the left of R. A sits second to the left of G. Only R sits between I and A. E is not an immediate neighbor of D.
How many people sit between N and A when counted from the right of N?

A. Two ✓
B. Four
C. One
D. Three

Answer: A. Two

Q.87 **Study the given diagram carefully and answer the question. The numbers in different sections indicate the number of persons in a room. (NOTE: You have to take the given data to be true even if it seems to be at variance from commonly known facts.) [Venn diagram of three circles — Athletes, Teachers, Engineers: Athletes only = 31; Athletes & Teachers only = 12; Teachers only = 45; all three = 11; Athletes & Engineers only = 24; Teachers & Engineers only = 17; Engineers only = 29] How many such engineers are there who are also athletes but not teachers?**

A. 24 ✓

B. 35

C. 23

D. 28

Answer: A. 24

Q.88 **What should come in place of the question mark (?) in the given series?**
17 40 61 80 97 112 ?

A. 125 ✓

B. 130

C. 127

D. 122

Answer: A. 125

Q.89 **In a certain code language,**
A @ B means 'A is the mother of B',
A × B means 'A is the wife of B',
A + B means 'A is the brother of B' and
A ÷ B means 'A is the father of B'.
How is S related to H if 'S × D + R ÷ Y @ H'?

A. Mother's father's brother's wife ✓

B. Father's brother's wife

C. Brother's wife

D. Mother's father's brother's daughter

Answer: A. Mother's father's brother's wife

Q.90 **Kiran starts from Point A and drives 23 km towards the north. She then takes a right turn, drives 9 km, turns right and drives 31 km. She then takes a right turn and drives 17 km. She takes a final right turn, drives 8 km and stops at Point P. How far (shortest distance) and towards which direction should she drive in order to reach Point A again?**
(All turns are 90-degree turns only unless specified.)

A. 9 km to the west
B. 8 km to the west
C. 8 km to the east ✓
D. 9 km to the east

Answer: C. 8 km to the east

Q.91 **Seven boxes X, Y, Z, W, V, U and T are kept one over the other but not necessarily in the same order. Y is placed at the bottommost position. Exactly three boxes are kept between T and W. W is kept on one of the positions above T. Box U is kept immediately above Z. Box X is kept immediately below W. Box V is kept immediately above W. Which box is second from the bottom?**

A. U
B. T ✓
C. V
D. W

Answer: B. T

Q.92 **JS 12 is related to MO -3 in a certain way. In the same way, LW 9 is related to OS -6. To which of the following is BT 6 related, following the same logic?**

A. EP -9 ✓
B. TR 10
C. PT -11
D. YT 8

Answer: A. EP -9

Q.93 **Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?**
EV21 IS33 MP45 QM57 ?

A. UJ69 ✓
B. VK71
C. UK71
D. VJ69

Answer: A. UJ69

Q.94 **In a certain code language, "VINP" is coded as "61" and "FSKA" is coded as "85". What is the code for "TOYG" in the given language?**

A. 63
B. 61
C. 55 ✓
D. 69

Answer: C. 55

Q.95 **Refer to the following letter series and answer the question. (Counting to be done from left to right only.)**
(Left) E S I C X Z O W G U K A Q D F T B Y M R H (Right)
How many such consonants are there, each of which is immediately preceded by a vowel and also immediately followed by a vowel?

A. 3
B. 2 ✓
C. 1
D. 4

Answer: B. 2

Q.96 **Based on the English alphabetical order, three of the following four letter clusters 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. HKO
B. ZCG
C. BEI
D. VZC ✓

Answer: D. VZC

Q.97 **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.)
(99, 103, 111)
(157, 161, 169)

A. (208, 212, 220) ✓
B. (323, 328, 336)
C. (112, 117, 125)
D. (196, 198, 206)

Answer: A. (208, 212, 220)

Q.98 **In a certain code language, 'MAKI' is coded as '2468' and 'MASK' is coded as '2496'.**
What is the code for 'S' in the given code language?

A. 8
B. 9 ✓
C. 4
D. 2

Answer: B. 9

Q.99 **RS 4 is related to UR −11 in a certain way. In the same way, IJ 8 is related to LI −7. To which of the following is MN 12 related, following the same logic?**

A. HY −7
B. MK −4
C. IO −5
D. PM −3 ✓

Answer: D. PM −3

Q.100 **Refer to the following letter series and answer the question that follows.**
(Left) X P S A D U G L O E J F K I M C R T Q (Right)
How many vowels are there in the English alphabetical series between the letter which is third from the right end and fifth from the left end of the series?

A. Two
B. More than one
C. Three ✓
D. One

Answer: C. Three