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Rajnish Bhatnagar

Railway NTPC Pre

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- (1) This booklet contains **100 Questions**.
CBT I (Mathematics, Mental Ability, General Science & General Awareness) (100 Questions)
- (2) All the questions are compulsory and carry equal marks.
- (3) Before you start to attempt the questions, you must explore this booklet and ensure that it contains all the pages and find that no page is missing or replaced. If you find any flaw in this booklet, you must get it replaced immediately.
- (4) **Each question carries negative marking also as 1/3 mark will be deducted for each wrong answer.**
- (5) You will be supplied the Answer-sheet separately by the invigilator. You must complete the details of Name, Roll number, Test name/Id and name of the examination on the Answer-Sheet carefully before you actually start attempting the questions. You must also put your signature on the Answer-Sheet at the prescribed place. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.
- (6) Answer must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by **Black/Blue ball pen** only.
- (7) A machine will read the coded information in the OMR Answer-Sheet. In case the information is incompletely/different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
- (8) The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- (9) Failure to comply with any of the above Instructions will make a candidate liable to such action/penalty as may be deemed fit.
- (10) Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- (11) Mobile phones and wireless communication device are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.
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NAME OF CANDIDATE:.....

DATE :..... **CENTRE CODE :**.....

ROLL No

Maximum Marks : 100

Total Questions : 100

Time Allowed : 90 Min.

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RNP-87261859-E

CBT I (Mathematics, Mental Ability, General Science & General Awareness)

- Q.1** Which one of the following represents the inner planets?
(A) Planets between the Sun and the belt of asteroids
(B) Planets between the Sun and the Earth
(C) Planets without satellite
(D) Planets in gaseous state
- Q.2** World Human Rights Day is observed on –
(A) 9 December (B) 10 December
(C) 11 December (D) 14 December
- Q.3** The headquarters of World Trade Organization is located in-
(A) Washington (B) Paris
(C) Vienna (D) Geneva
- Q.4** In India, income tax is levied by-
(A) Union Government (B) State Government
(C) Ministry of Finance (D) RBI
- Q.5** The International Finance Corporation was established in _____.
(A) 1956 (B) 1960
(C) 1972 (D) 1985
- Q.6** Who was the Prime Minister of India when nationalization of banks took place in 1969?
(A) Morarji Desai (B) Lal Bahadur Shastri
(C) Jawaharlal Nehru (D) Indira Gandhi
- Q.7** When pH of rainwater drops below 5.6 it is-
(A) Acidic (B) Basic
(C) Neutral (D) None of these
- Q.8** Where is the Vivekananda Rock Memorial situated?
(A) Thiruvananthapuram (B) Kanyakumari
(C) Nagercoil (D) Bhubaneswar
- Q.9** Who was the founder of Prarthana Samaj?
(A) Raja Rammohan Roy (B) Atmaram Pandurang
(C) Dayananda Saraswati (D) Jayaprakash Narayan
- Q.10** Shivaram Wildlife Sanctuary is located in-----.
(A) Karnataka (B) Telangana
(C) Tamil Nadu (D) Kerala
- Q.11** The currency of Japan is-
(A) Rial (B) Yuan
(C) Yen (D) Rupiyah
- Q.12** 'Triton' is the largest moon of which planet?
(A) Uranus (B) Jupiter
(C) Neptune (D) Saturn
- Q.13** Which one of the following are recorded first by the Seismograph?
(A) P-waves (B) S-waves
(C) L-waves (D) R-waves
- Q.14** Which of the following gases is used in the manufacturing of plastic?
(A) Methane (B) Helium
(C) Ethylene (D) Butane
- Q.15** Camera is an optical instrument that uses-
(A) Convex lens (B) Concave lens
(C) Cylindrical lens (D) None of these
- Q.16** Who is known as the Father of Indian Railway?
(A) Lord Canning (B) Lord Ripon
(C) Lord Curzon (D) Lord Dalhousie
- Q.17** What is the approved Minimum Support Price (MSP) for raw jute (TD-3 grade) for the agricultural marketing season 2025-26?
(A) ₹5500 per quintal (B) ₹5600 per quintal
(C) ₹5650 per quintal (D) ₹5700 per quintal
- Q.18** What is the judicial capital of Nagaland?
(A) Dispur (B) Silchar
(C) Guwahati (D) Dibrugarh
- Q.19** Where is the wheel and axle plant of Indian Railways?
(A) Bangalore (B) Chittaranjan
(C) Chapra (D) Madhepura
- Q.20** Where did India's first metro rail start?
(A) Mumbai (B) Kolkata
(C) Bangalore (D) Pune
- Q.21** Which Sufi Silsila had got much popularity in India?
(A) Chisti (B) Suhrawardi
(C) Firdausi (D) Naqshbandi
- Q.22** Which one of the following is not a monetary policy instrument of RBI to control money supply in the market?
(A) CRR (B) SLR
(C) Repo Rate (D) None of the above
- Q.23** Match the following and choose correct option. State Folk dance
(a) Andhra Pradesh 1. Dumhal
(b) Chattisgarh 2. Kolattam
(c) Kashmir 3. Kalbelia
(d) Rajasthan 4. Panthi
(A) 1c, 2a, 3d, 4b (B) 1d, 2b, 3c, 4a
(C) 1b, 2d, 3a, 4c (D) 1c, 2b, 3d, 4a
- Q.24** Which of the following tomb is located outside of the India?
(A) Humayun (B) Aurangzeb
(C) Jahandar Shah (D) Jahangir
- Q.25** Which drug is used as a Thyroid Hormone?
(A) Metformin (B) Ketoconazole
(C) Promethazine (D) Liothyronine
- Q.26** Who is the founding member of Kimberley Process Certification Scheme (KPCS)?
(A) USA (B) Italy
(C) Australia (D) India
- Q.27** Which is the first Hindi newspaper of India?
(A) Udaan (B) Azad Vichaar
(C) Udant Martand (D) Vichaar Vyakti

Q.28 On the last of the allotted days at the appointed time the speaker puts every question necessary to dispose of all the out standing Matters in connection with demand for grants, this is known as

- (A) Guillotine (B) Censure Motion
(C) Adjournment Motion (D) Privilege Motion

Q.29 The Blue Cross is related to which sport?

- (A) Boxing (B) Long Jump
(C) Shooting (D) Martial Arts

Q.30 DNA stands for.....

- (A) Di Nucleic Acid (B) Deoxy Nucleic Acid
(C) Di ribonucleic Acid (D) Deoxy ribonucleic Acid

Q.31 Who won the men's singles title at the 2025 India Open Badminton Tournament?

- (A) Lee Cheuk Yiu (B) Viktor Axelsen
(C) Kento Momota (D) Anthony Ginting

Q.32 Freedom fighter Veer Surendra Sai, whose 217th birth anniversary was celebrated on 23rd January 2025, was born in which Indian state?

- (A) Bihar (B) Jharkhand
(C) West Bengal (D) Odisha

Q.33 What is India's rank in the Global Firepower Index 2025?

- (A) 2nd (B) 3rd
(C) 4th (D) 5th

Q.34 Name the former Chairman of the Securities and Exchange Board of India (SEBI), who was bestowed the honour at the 2018 gfiles Governance Awards?

- (A) U. K. Sinha (B) D R. Mehta
(C) C. B. Bhavé (D) M. Damodaran

Q.35 Which organization has been awarded the Subhash Chandra Bose Aapda Prabandhan Puraskar for 2025 in the Institutional Category?

- (A) Indian National Centre for Ocean Information Services
(B) National Disaster Management Authority
(C) National Institute of Disaster Management
(D) Indian Meteorological Department

Q.36 Name the member countries of NAFTA?

- (A) USA, Mexico and Canada
(B) USA, India and China
(C) USA, Italy and Canada
(D) India, China and Japan

Q.37 What is the theme of the DRDO Tableau at the 76th Republic Day Parade 2025?

- (A) Raksha Kavach - Multi-layer Protection against Multi-domain Threats
(B) Bharat Shakti - National Defence Strength
(C) Defence Archieves - Innovations in Defence Technology
(D) Defence Achievements - Strategic Military Advancements

Q.38 Which chronology is correct about elected President of India?

- (1) Sri N. Sanjeeva Raddy
(2) Sri. V. V Giri
(3) Dr. Fakhruddin Ali Ahmed

(4) Dr. Zakir Hussain

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

Q.39 Who Invented LCD Projector?

- (A) Gene Dolgoff (B) Brendan Eich
(C) Douglas Engelbart (D) Federico Faggin

Q.40 Which US-based defence technology company has JSW Defence partnered with to manufacture the 'V-BAT' Unmanned Aerial System (UAS)?

- (A) Lockheed Martin (B) Boeing
(C) Northrop Grumman (D) Shield AI, Inc

Q.41 If first term of an arithmetic series is 21 and the difference between two consecutive terms is -4. Find the 12th term?

- (A) -25 (B) -26
(C) -21 (D) None of these

Q.42 The measures of the four angles of a quadrilateral are in the ratio 4:5:7:8. What is the difference between the measure of second highest and lowest angle?

- (A) 48° (B) 45°
(C) 30° (D) None of these

Q.43 If P:Q = 1:2, Q:R = 3:4, R:S = 6:9 and S:T = 12:16, then find P:Q:R:S:T.

- (A) 4:6:9:12:15 (B) 2:3:6:8:12
(C) 3:6:8:12:16 (D) None of these

Q.44 In an examination, 43% of the students failed in History, 24% failed in Geography and 13% failed in both subjects. Find the percentage of students who passed in both the subjects?

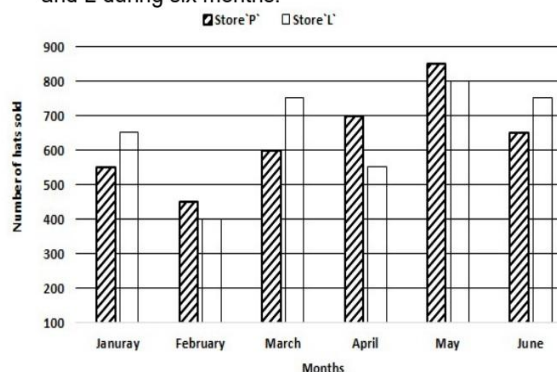
- (A) 54% (B) 48%
(C) 52% (D) None of these

Q.45 A starts a business with ₹ 4000. B joins him after three months with ₹ 8000. C puts a sum of ₹ 18000 in the business for 3 months only. At the end of the year, the business gave a total profit of ₹ 6293. Find the profit share of C?

- (A) ₹1736 (B) ₹.2387
(C) ₹1963 (D) None of these

Direction Q.(46-49) Read the following bar graph carefully and answer the questions given below.

Bar graph shows number of hats sold by two stores P and L during six months.



- Q.46** The total number of hats sold in may by both stores together is approximately what percent more than the total number of hats sold in march by both stores together?
(A) 24% (B) 22%
(C) 20% (D) 26%
- Q.47** What is the average number of hats sold by store in all Given month together?
(A) 666.66 (B) 599.33
(C) 633.33 (D) 683.33
- Q.48** What is the ratio between the total number of hats sold by store 'P' in February and April together and the total number of hats sold by store 'L' in June and January together?
(A) 6:7 (B) 11:14
(C) 25:28 (D) None of these
- Q.49** What is the difference between the total number of hats sold by company 'L' in all given months together and the total number of hats sold by company 'P' in all given months together?
(A) 150 (B) 50
(C) None of these (D) 200
- Q.50** A boy goes to school at a speed of 6 kmph and return to the village at a speed of 4 kmph. If he takes 15 hours in all, what is the distance between school and village?
(A) 36km. (B) 24km.
(C) None of these (D) 30km.
- Q.51** A man swims downstream 36km and upstream 24km. taking 4 hours each time. What is the velocity of current?
(A) 2 kmph (B) 1.5 kmph
(C) 3 kmph (D) None of these
- Q.52** Find the surface area of a sphere of diameter 28 cm?
(A) 2474 cm.² (B) 2532cm.²
(C) 2396 cm.² (D) None of these
- Q.53** A man can do a work alone in 12 days. With the help of a day he can do the same work in 9 days. If they get ₹1244 for that work, what is the share of that boy?
(A) ₹411 (B) ₹423
(C) ₹396 (D) None of these
- Q.54** In what proportion must sugar at ₹4.10 per kg. be mixed with sugar at ₹4.60 per kg., so that the mixture be worth 4.25 per kg.?
(A) 7:4 (B) 6:5
(C) None of these (D) 8:3
- Q.55** Find the compound interest on ₹16750 in 2 years, the rate of interest being 4% for the first year and 8% for the second year?
(A) ₹ 2063.60 (B) ₹ 2084.8
(C) ₹ 2116.4 (D) None of these
- Q.56** A tradesman marks his goods at 24% above his cost price and allows purchasers a discount of $11\frac{1}{2}\%$ for cash. What profit % does he make?
(A) 9.75% (B) 9.84%
(C) 8.98% (D) None of these
- Q.57** If $\tan^2\theta - \sin^2\theta = P$, then find the value of P?
(A) $\sin\theta.\tan\theta$ (B) $\sin^2\theta.\tan^2\theta$
(C) $\operatorname{cosec}^2\theta \cot^2\theta$ (D) $\cot\theta \operatorname{cosec}\theta$
- Q.58** What is the value of $\cot 210^\circ$?
(A) $\sqrt{3}$ (B) $-\sqrt{3}$
(C) $-\frac{1}{\sqrt{3}}$ (D) $\frac{1}{\sqrt{3}}$
- Q.59** If $\sqrt{\frac{1+\cos\theta}{2}} = Y$ then find the value of Y?
(A) 1 (B) $\cos\theta$
(C) $\sin\frac{\theta}{2}$ (D) None of these
- Q.60** If $x = \frac{y^2}{y-x}$ Then the value of x^3+y^3 is?
(A) 1 (B) xy
(C) 0 (D) None of these
- Q.61** If $a = \sqrt[3]{2 + \sqrt{3}}$, then the value of $a^3 + 1/a^3$ is
(A) 1 (B) 4
(C) 2 (D) None of these
- Q.62** If $\frac{l}{m} = \frac{1}{m} - \frac{1}{l}$, then the value of $l - l^2$ is?
(A) $\frac{1}{m}$ (B) $-\frac{1}{m}$
(C) m (D) -m
- Q.63** Find the value of x. $11339 \div 23 + 11 \times 27 - 17^2 - 377 \div 13 = x$
(A) 485 (B) 472
(C) 465 (D) None of these
- Q.64** $\frac{(343)^{a/3} \times 7^{2a+1}}{49^{(a-1)} \times 7^a} = ?$
(A) 343a (B) 49
(C) $49(a+1)$ (D) None of these
- Q.65** $(16)^{0.16} \times (16)^{0.04} \times (2)^{0.2}$ is equal to :-
(A) 4 (B) $1/2$
(C) None of these (D) 8
- Q.66** When simplified the product $(1-\frac{1}{3})(1-\frac{1}{4})(1-\frac{1}{5}) \dots (1-\frac{1}{t})$ becomes.
(A) $\frac{2}{t}$ (B) $\frac{1}{t}$
(C) None of these (D) $\frac{1}{t(t+1)}$
- Q.67** The least number more than 5000 which is divisible by 73.
(A) 5110. (B) 5047
(C) 5057 (D) None of these
- Q.68** What is the slope of the line $3x+4y-16=0$?
(A) $-\frac{1}{4}$ (B) $-\frac{3}{4}$
(C) None of these (D) $\frac{3}{4}$
- Q.69** Find the number of sides of a regular polygon whose each internal angle is 150°
(A) 10 (B) 15
(C) 12 (D) 9

- Q.70** The diameter of a toy wheel is 28 cm. What is the distance travelled by it in 14 revolutions?
 (A) 12.32m (B) 1248cm.
 (C) None of these (D) 11.98m.

Direction Q.(71-74) Read following information carefully and answer given question ? "P ÷ Q" means "P is wife of Q"

"P - Q" means "P is Husband of Q"
 "P @ Q" means "P is sister of Q"
 "P % Q" means "P is mother of Q"
 "P * Q" means "P is father of Q"
 "P + Q" means "P is son of Q"
 "P © Q" means "P is daughter of Q"
 "P \$ Q" means "P is brother of Q"

- Q.71** K-L%O\$P, T@R+M÷Q=U-V, S-G%K\$L@M
 How G related to P?
 (A) Mother (B) Daughter
 (C) Daughter-in-law (D) None of these
- Q.72** T@R+M÷Q=U-V, S-G%K\$L@M, K-L%O\$P
 How G related to Q?
 (A) Mother (B) Mother-in-law
 (C) Daughter (D) Daughter-in-law

- Q.73** I+H*L%N © Y, X ÷ D*F@G ÷ H+J-K
 How H related to X?
 (A) Paternal Grand Son
 (B) Maternal Grand Son
 (C) Son-in-law
 (D) Cannot be determined

- Q.74** I+H*L%N © Y, X ÷ D*F@G ÷ H+J-K
 How G related to L?
 (A) Paternal Grand daughter
 (B) Maternal Grand daughter
 (C) Mother-in-law
 (D) Mother

Direction Q.(75-76) Study the following information carefully to answer the question given below-

**B © 5 L 8 M S # 9 @ 2 \$ Y © R ^ P * W % X 5 N J S 1
 C 6 ^ Z 8 E 9 G 7 H**

- Q.75** How many such symbols are there in the above arrangement which is immediately preceded by a number and followed by an alphabet?
 (A) None (B) Two
 (C) Three (D) One
- Q.76** What is the position of "*" in the above arrangement?
 (A) 17th from right end (B) 15th from left end
 (C) 7th to the left of N (D) 5th to the right of Y

Direction Q.(77-79) Read following information carefully and answer the following question.

There are six person Shivam, Tilak, Urijit, Vivek, Wahid and Karan Who got different marks in the examination. Shivam got more marks than only Urijit and Karan. Tila got less marks than wahid, who did not get highest marks in the examination. The second highest person got 95 marks.

- Q.77** How many person got more marks than Urijit ?
 (A) Three (B) Two
 (C) More than three (D) None of these

- Q.78** If Tilak got 80 marks which is the possible score of Shivam?
 (A) 96 (B) 90
 (C) 85 (D) 76

- Q.79** Who got lowest marks?
 (A) Wahid (B) Shivam
 (C) Karan (D) Cannot be determined

Direction Q.(80-81) Study the following information given below and answer the question based on it.

(A) Data in statement I is sufficient to answer the question while data in statement II are not required to answer.
 (B) Data in statement II is sufficient to answer the question while data in statement I are not required to answer.
 (C) Data in both statements I and II together are necessary to answer the question.
 (D) Data in neither statement I nor II are sufficient to answer the question.

- Q.80** Six friend Prateek, Kashif, Ravi, Shivam, Tarun and Umang are having different heights. Who among the following is tallest person.
 (I) Sohail is Taller than Prateek but shorter than Umang. Tarun is taller than Kashif but not the tallest.
 (II) Sohail is only taller to Prateek. Kashif is taller to Umang and Sohail but not the tallest.

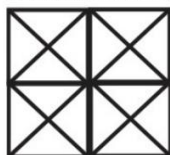
- Q.81** Total 15 students got rank from top to bottom. The one who got 1st rank is at top and the one who got 15th rank is at bottom. What is rank of Kavita from the top?
 (I) Manav is 8th from top Three person are between Manav and Kavita. Atleast 5 person got worse rank than kavita.
 (II) Geeta's rank 3rd from bottom. Four person are between Geeta. and Manav Three person are between Manav and Kavita.

Direction Q.(82-83) In the given question a relationship shows between different elements.

After the statement, four conclusions are given. You have to decide which of the following conclusion definitely follows the given statements.

- (A) Only conclusion I follow
 (B) Only conclusion II follow
 (C) Both conclusion follow
 (D) None follow
- Q.82** Statement : $H < F < A > B > C$, $U < F > M > K$
 Conclusion : (I) $A > F$ (II) $F < C$
- Q.83** Statement : $H < F < A > B > C$, $U < F > M > K$
 Conclusion : (I) $M < B$ (II) $K < C$

Q.84 Find number of triangle in given figure?



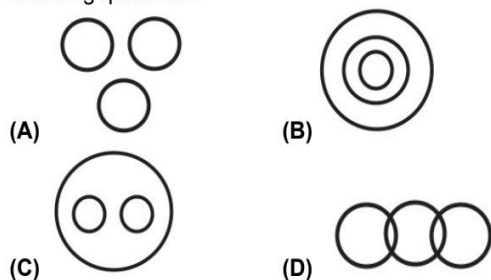
- (A) 38 (B) 39
(C) 44 (D) 46

Q.85 From the given alternative words, select the word which cannot be formed using letters of the given word?

TRADITIONAL

- (A) ADDITION (B) INDIA
(C) RATIO (D) STRAIT

Direction Q.(86-87) Choose the Venn diagram which best illustrates the three given classes in each of the following questions?



Q.86 Diamond ring, ring ornament

Q.87 Nose, eye, body

Direction Q.(88-91) In the following question below are given, some statement followed by some conclusion taking the given statement to be true even if they seem to be at variance from commonly known facts, read all conclusion and then decide which of the following conclusion logically follow the given statement.

- (A) Only conclusion I follow
(B) Only conclusion II follow
(C) Both conclusion follow
(D) None follow

Q.88 **Statements:** All P are S. All Q are R. Some P are Q.
Conclusions: (I) Some P are R is a possibility
(II) Some S are not R.

Q.89 **Statements:** No S is T. No T is U. All U are V.
Conclusions: (I) Some V are not T is a possibility.
(II) All S are U is a possibility.

Q.90 **Statements:** Some G are H. Some H are not I. No I is J.
Conclusions: (I) Some G are not I.
(II) All J are G is a possibility.

Q.91 **Statements:** Some K are L. No L is M. No M is N.
Conclusions: (I) Some M are not K is a possibility.
(II) 25% L is not M.

Direction Q.(92-94) Study the following information carefully and answer the questions given below:

In a certain code language 'election survey people' is written as 'fyo fvo fna', 'biopic law member' is written as 'fsa fra fta', 'people law lead' is written as 'fla fvo fsa', and 'review nation election' is written as 'fyo fha fja'.

Q.92 What is the code of "Survey"?
(A) fna (B) fyo
(C) fvo (D) Cannot be determined

Q.93 Give the word for code "fra"?
(A) Biopic (B) Law
(C) Member (D) Cannot be determined

Q.94 What is code of "Lead election"?
(A) fla fna (B) fta fna
(C) fvo fla (D) fla fyo

Direction Q.(95-96) Study the following information carefully and answer the questions which follow.

From point R, Arjun starts to walk in north direction and covers a distance of 5 meters then after he takes a right turn and covers a distance of 4 meters and finally takes a left turn and covers a distance of 5 meters and reaches at point Q. From point P, Pankaj starts to walk in south direction and covers a distance of 10 meters then he takes a left turn and covers a distance of 16 meters and reaches at point Q.

Q.95 In which direction is point P with respect to point R?
(A) South East (B) North West
(C) North (D) South

Q.96 What is shortest distance between point P and R?
(A) $5\sqrt{37}$ (B) 25
(C) $4\sqrt{34}$ (D) 38

Direction Q.(97-98) In the following questions select the odd word/ number pair from given alternatives.

Q.97 (A) 483 (B) 609
(C) 576 (D) 548

Q.98 (A) PLCV (B) DEMQ
(C) HGVF (D) JLTN

Direction Q.(99-100) In the following questions select the related word / number from given alternatives.

Q.99 JHVC : 43 :: KTMQ : ?
(A) 58 (B) 65
(C) 68 (D) 61

Q.100 29 : 435 :: 36 : ?
(A) 495 (B) 540
(C) 580 (D) 525

Space for rough work

