# East Coast Railway

(Examination for assessment of suitability for appointment in ALP post on compassionate ground)

Time Allowed: 90 minutes | Max Marks: 100

1. By Which legislation were India and Pakistan divided into two independent nations?
   (A) Pakistan Partition Act 1947 (B) Indian Partition Act 1947
   (C) Pakistan Independence Act 1947 (D) Indian Independence Act 1947
2. An increase in price of which of these products will have a ripple effect in increasing the prices of many products, thereby resulting in inflation?
   (A) Medicines (B) Smartphones (C) Petroleum (D) Automobiles
3. Who is the author of the speculative book 'Half of what I Say'?
   (A) Anil Menon (B) K.R.Meera (C) Namita Gokhale (D) Shashi Tharoor
4. Which state launched 'Vidya Rath-School on Wheels' project?
   (A) Madhya Pradesh (B) Bihar (C) Assam (D) Arunachal Pradesh
5. How many cities have recently declared themselves as 'Safai Mitra Surakshit Shehar' (as of August 2022)?
   (A) 100 (B) 250 (C) 500 (D) 750
6. Which state/UT launched the first flight of drone service – 'Medicine from the sky'?
   (A) New Delhi (B) Arunachal Pradesh (C) Telangana (D) Karnataka
7. Which is the first country to approve a vaccine for Covid Omicron variant?
   (A) India (B) USA (C) UK (D) Italy
8. Which is the venue of the 'India International Seafood Show (IISS)'?
   (A) Mumbai (B) Kochi (C) Kolkata (D) Chennai
9. Agasthyamalai elephant reserve, which was notified recently, is located in which state?
   (A) Kerala (B) Tamil Nadu (C) Karnataka (D) Telangana
10. Which institution launched 'SPARK', virtual space tech park?
    (A) NITI Aayog (B) ISRO (C) DRDO (D) BEL
11. Which Indian politician was conferred with France's highest civilian award Chevalier de la Legion d'Honneur?
    (A) Narendra Modi (B) Rahul Gandhi (C) Ram Nath Kovind (D) Shashi Tharoor
12. The Union Cabinet (in August 2022) approved to continue Pradhan Mantri Awas Yojana (Urban) till which year?
    (A) 2023 (B) 2024 (C) 2027 (D) 2030
13. Manisha Kalyan, who was seen in the news, is associated with which sports?
    (A) Cricket (B) Football (C) Boxing (D) Weight Lifting
14. Which company developed the '2nd generation (2G) Ethanol Plant', which was recently inaugurated?
    (A) HPCL (B) IOCL (C) BPCL (D) ONGC
15. Which Indian city is also known as "Oxford of East"?
    (A) Bengaluru (B) Kolkata (C) Delhi (D) Pune
16. When was the first train steamed off in India?
    (A) 1848 (B) 1853 (C) 1875 (D) 1880
17. In which of the following cities are located 3 zonal headquarters of Indian Railways?
    (A) Guwahati (B) Mumbai (C) New Delhi (D) Kolkata

18. Which was the first country to introduce GST in its system?
Ⓐ France Ⓑ Canada Ⓒ Australia Ⓓ Germany

19. The 2023 ICC Men's ODI Cricket World Cup will be the 13th edition of the men's Cricket World Cup, scheduled to be hosted by
Ⓐ Australia Ⓑ New Zealand Ⓒ USA Ⓓ India

20. The Dadasaheb Phalke Award for significant public achievement in which field?
Ⓐ Literature Ⓑ Films Ⓒ Sports Ⓓ Journalism

21. Which institution released an article titled 'Privatisation of Public Sector Banks: An Alternate Perspective'?
Ⓐ NITI Aayog Ⓑ Reserve Bank of India
Ⓒ State Bank of India Ⓓ National Council of Applied Economic Research

22. Which is the first 'Har Ghar Jal certified' state in India?
Ⓐ Goa Ⓑ Kerala Ⓒ Karnataka Ⓓ Odisha

23. Where was India's first Double Decker AC electric bus unveiled?
Ⓐ Mumbai Ⓑ New Delhi Ⓒ Hyderabad Ⓓ Bengaluru

24. Who has been named as the new MD and CEO of the National Stock Exchange (NSE)?
Ⓐ Ashish Chauhan Ⓑ K V Kamath Ⓒ Urjit Patel Ⓓ Arundhati Bhatacharya

25. Which country conducted its largest-ever military exercises around Taiwan?
Ⓐ USA Ⓑ China Ⓒ Israel Ⓓ Russia

Directions (for next 4 questions): Read the following information carefully and answer the questions, which follow:

'A – B' means 'A is father of B'

'A + B' means 'A is daughter of B'

'A ÷ B' means 'A is son of B'

'A × B' means 'A is wife of B'

26. Which of the following means P is grandson of S?
Ⓐ P + Q – S Ⓑ P ÷ Q × S Ⓒ P ÷ Q + S Ⓓ P × Q ÷ S

27. How is P related to T in the expression 'P + S – T' ?
Ⓐ Sister Ⓑ Wife Ⓒ Son Ⓓ Daughter

28. In the expression 'P + Q × T' how is T related to P ?
Ⓐ Mother Ⓑ Father Ⓒ Son Ⓓ Brother

29. In the expression 'P × Q – T' how is T related to P ?
Ⓐ Father Ⓑ Mother Ⓒ Brother Ⓓ None of these

30. As 'Bell' is related to 'Sound' in the same way 'Lamp' is related to what?
Ⓐ Flame Ⓑ Light Ⓒ Wick Ⓓ Oil

31. As 'Steal' is related to 'Factory' in the same way 'Wheat' is related to what?
Ⓐ Field Ⓑ Sky Ⓒ Godown Ⓓ Market

32. Line : Square : : Arc : ?
Ⓐ Rectangle Ⓑ Rhombus Ⓒ Circle Ⓓ Triangle

33. As 'Fly' is related to 'Parrot' in the same way 'Creep' is related to what?
Ⓐ Snake Ⓑ Rabbit Ⓒ Fish Ⓓ Crocodile

34. Microphone: Loud :: Microscope : ?
Ⓐ Increase Ⓑ Investigate Ⓒ Examine Ⓓ Magnify

Direction (next 4 questions): Study the following information carefully and answer the questions given below:

P, Q, R. S, T. V and W are sitting around a circle facing at the centre. V is second to the left of P and second to the right of W. T is third to the right of Q and is not an immediate neighbour of V. S is third to the right of R.

35. Who is second to the right of Q?

Ⓐ R Ⓑ W Ⓒ T Ⓓ S

36. Who is to the immediate left of S?

Ⓐ V Ⓑ T Ⓒ Q Ⓓ W

37. Who is to the immediate right of R?

Ⓐ W Ⓑ T Ⓒ P Ⓓ Data Inadequate

38. In which of the following groups is the first person sitting between the second and the third persons?

Ⓐ RPQ Ⓑ TWS Ⓒ QPR Ⓓ None of these

39. Find the odd number/letters from the given options.

Ⓐ Swimming Ⓑ Sailing Ⓒ Diving Ⓓ Driving

40. Which word does not belong to other

Ⓐ Inch Ⓑ Ounce Ⓒ Centimetre Ⓓ Yard

**41.** What will come at the place of question mark. **1, 9, 25, 49, ?, 121**.

Ⓐ 100 Ⓑ 91 Ⓒ 64 Ⓓ 81

**42. SCD, TEF, UGH, ____, WKL.**

Ⓐ CMN Ⓑ UJI Ⓒ VIJ Ⓓ IJT

43. In a certain code FIRE is coded as **DGPC**. What will be the last letter of the coded word of **SHOT**.

Ⓐ Q Ⓑ R Ⓒ S Ⓓ P

44. Find the missing character?

| | | |
|---|---|---|
| A | D | G |
| D | I | N |
| I | P | ? |

Ⓐ V Ⓑ X Ⓒ W Ⓓ Y

45. Choose the word which is different from the rest.

Ⓐ Kiwi Ⓑ Eagle Ⓒ Emu Ⓓ Ostrich

46. A man walks 1 km to East and then he turns to south and walks 5km. Again, he turns to East and walks 2 km. After this he turns to North and walks 9 km. Now, how far is he from his starting point?

Ⓐ 3 km Ⓑ 4 km Ⓒ 5 km Ⓓ 7 km

47. Thermometer : Temperature : : Glucometer : ?

Ⓐ Blood Pressure Ⓑ Blood Haemoglobin Ⓒ Blood Ⓓ Blood Sugar

48. Choose the word which is different from the rest.

Ⓐ Radio Ⓑ Television Ⓒ Computer Ⓓ X-ray

49. Choose the word which is different from the rest.

Ⓐ Actor Ⓑ Musician Ⓒ Dancer Ⓓ Poet

50. Find the missing number

| | | |
|---|---|---|
| 4 | 8 | 20 |
| 9 | 3 | 15 |
| 6 | 6 | ? |

Ⓐ 22 Ⓑ 18 Ⓒ 16 Ⓓ 20

51. A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?
Ⓐ 3.6 Ⓑ 7.2 Ⓒ 8.4 Ⓓ 10

52. A car covers its journey at the speed of 80km/hr in 10hours. If the same distance is to be covered in 4 hours, by how much the speed of car will have to increase?
Ⓐ 40 kmph Ⓑ 60 kmph Ⓒ 90 kmph Ⓓ 120 kmph

53. A 400m long train is running at 72 Kmph. how much time will it take to cross an electric pole?
Ⓐ 15 sec Ⓑ 20 sec Ⓒ 19 sec Ⓓ 21 sec

54. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?
Ⓐ 120 m Ⓑ 240 m Ⓒ 280 m Ⓓ 420 m

55. A, B and C take a work at ₹ 24000. A alone can do the work in 20 days, B alone can do the same work in 30 days and C alone can do the same work in 24 days. Find the wages of A.
Ⓐ ₹ 9400 Ⓑ ₹ 6500 Ⓒ ₹ 6480 Ⓓ ₹ 9600

56. A and B can do a piece of work in 4 days, while C and D can do the same work in 12 days. In how many days will A, B, C and D do it together?
Ⓐ 12 days Ⓑ 4 days Ⓒ 3 days Ⓓ 2 days

57. A and B started a business by investing ₹ 4000 and ₹ 5000 respectively. Find the A's share out of a total profit of ₹ 1800.
Ⓐ ₹ 1000 Ⓑ ₹ 1800 Ⓒ ₹ 800 Ⓓ ₹ 400

58. Sumit and Ravi started a business by investing ₹ 85000 and ₹ 15000 respectively. In what ratio the profit earned after 2 years be divided between Sumit and Ravi respectively.
Ⓐ 17:1 Ⓑ 17:2 Ⓒ 17:3 Ⓓ 17:4

59. A bag contains 50 P, 25 P and 10 P coins in the ratio 5: 9: 4, amounting to Rs. 206. Find the number of coins of each type respectively.
Ⓐ 360, 160, 200 Ⓑ 160, 360, 200
Ⓒ 200, 360, 160 Ⓓ 200, 160, 300

60. In a certain room, there are 28 women and 21 men. What is the ratio of women to the total number of people?
Ⓐ 4:3 Ⓑ 4:7 Ⓒ 6:3 Ⓓ 8:7

61. A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream.
Ⓐ 2 hours Ⓑ 3 hours Ⓒ 4 hours Ⓓ 5 hours

62. A man can row upstream 10 kmph and downstream 20 kmph. Find the man rate in still water and rate of the stream.
Ⓐ 0, 5 Ⓑ 5, 5 Ⓒ 15, 5 Ⓓ 10, 5

63. At what rate percent per annum will a sum of money double in 8 years.
Ⓐ 12.5% Ⓑ 13.5% Ⓒ 11.5% Ⓓ 14.5%

64. The percentage increase in the area of a rectangle, if each of its sides is increased by 20% is:
Ⓐ 32% Ⓑ 34% Ⓒ 42% Ⓓ 44%

65. The average of runs of a cricket player of 10 innings was 32. How many runs must he make in his next innings so as to increase his average of runs by 4?
Ⓐ 76 Ⓑ 79 Ⓒ 85 Ⓓ 87

66. Find the lowest common multiple of 24, 36 and 40.
Ⓐ 120 Ⓑ 240 Ⓒ 360 Ⓓ 480

67. Two pipes A and B can fill a tank in 20 and 30 minutes respectively. If both the pipes are used together, then how long it will take to fill the tank?
Ⓐ 10 mins Ⓑ 12 mins Ⓒ 15 mins Ⓓ 20 mins

68. If one-third of one-fourth of a number is 15, then three-tenth of that number is
Ⓐ 35 Ⓑ 36 Ⓒ 45 Ⓓ 54

69. A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls, the volume of the hall is:
Ⓐ 720 $m^3$ Ⓑ 900 $m^3$ Ⓒ 1200 $m^3$ Ⓓ 1800 $m^3$

70. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
Ⓐ 4 years Ⓑ 8 years Ⓒ 10 years Ⓓ None of these

71. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:
Ⓐ 588 apples Ⓑ 600 apples Ⓒ 672 apples Ⓓ 700 apples

72. Solve the equation for x : $19(x + y) + 17 = 19(-x + y) - 21$
Ⓐ -1 Ⓑ 1 Ⓒ -2 Ⓓ 2

73. Find the roots of the quadratic equation: $2x^2 + 3x - 9 = 0$?
Ⓐ $3, -\frac{3}{2}$ Ⓑ $\frac{3}{2}, -3$ Ⓒ $-3, -\frac{3}{2}$ Ⓓ $\frac{3}{2}, 3$

74. A trader mixes 26 kg of rice at Rs. 20 per kg with 30 kg of rice of other variety at Rs. 36 per kg and sells the mixture at Rs. 30 per kg. His profit percent is:
Ⓐ No Profit, No loss Ⓑ 5% Ⓒ 8% Ⓓ 10%

75. Raju age after 15 years will be 5 times his age 5 years back, what is the present age of Raju
Ⓐ 15 Ⓑ 14 Ⓒ 10 Ⓓ 8

76. The SI unit of resistance is:
Ⓐ Coulomb Ⓑ Newton Ⓒ Ohm Ⓓ Joule

77. Negative acceleration is the opposite direction of:
Ⓐ Velocity Ⓑ Force Ⓒ Momentum Ⓓ Distance

78. 1 kWH = ?
Ⓐ $3.6 \times 10^{-5}$ J Ⓑ $3.6 \times 10^{5}$ J Ⓒ $3.6 \times 10^{-6}$ J Ⓓ $3.6 \times 10^{6}$ J

79. Which of the following is the last element in Newlands Law of Octaves classification?
Ⓐ Radium Ⓑ Iron Ⓒ Thorium Ⓓ Rhodium

80. The reflector of a search light is a:
Ⓐ cylindrical mirror Ⓑ convex mirror Ⓒ concave mirror Ⓓ plane mirror

81. When several resistors are connected in series in a circuit, the value of current:
Ⓐ decreases Ⓑ remains same Ⓒ increases Ⓓ becomes half

82. Momentum is measured as the product of:
Ⓐ Mass and Velocity Ⓑ Mass and Force
Ⓒ Mass and Inertia Ⓓ Mass and Acceleration

83. Plants that do not have a differentiated plant body belongs to the group_____.
Ⓐ Phanerogams Ⓑ Pteridophyta Ⓒ Bryophyta Ⓓ Thallophyta

84. Which of the following is Saprotroph?
Ⓐ Pigeon Ⓑ Man Ⓒ Mushroom Ⓓ Algae

85. The resistance of a conductor is inversely proportional to its:
Ⓐ area of cross section Ⓑ length Ⓒ resistivity Ⓓ temperature

86. Metals reacts with acids to give:
Ⓐ A salt and Hydrogen Ⓑ A Salt and base
Ⓒ A salt and water Ⓓ A salt and Chlorine

87. The girth of the stem or root in plants increases due to:
Ⓐ Extra meristem Ⓑ Apical meristem
Ⓒ Lateral meristem Ⓓ Intercalary meristem

88. Which of the following services as a nutritive tissue for the growing embryo?
Ⓐ Zygote Ⓑ Endosperm Ⓒ Ovary Ⓓ Ovule

89. The main cause of rancidity in foods is the _____ of fats and oils.
Ⓐ oxidation Ⓑ reduction Ⓒ hydrolysis Ⓓ clarification

90. Which of the following gas is not generated in a biogas plant?
Ⓐ CO Ⓑ $CO_2$ Ⓒ $CH_4$ Ⓓ $H_2S$

91. Topping Tooth decay starts when pH of the mouth is lower than:
Ⓐ 5.4 Ⓑ 5.7 Ⓒ 5.5 Ⓓ 5.6

92. A raised hammer possesses:
Ⓐ Kinetic Energy Ⓑ Mechanical Energy
Ⓒ Muscular Energy Ⓓ Potential Energy

93. _____ forms a common passage for both urine and sperms in human males.
Ⓐ Urethra Ⓑ Oviduct Ⓒ Ureter Ⓓ Vas deferens

94. The maximum number of electrons that can be accommodated in M shell is:
Ⓐ 18 Ⓑ 2 Ⓒ 8 Ⓓ 32

95. What happens as we go down the group in the periodic table?
Ⓐ The number of shells decreases Ⓑ Valence electrons decreases
Ⓒ The number of shells increases Ⓓ Atomic Size decreases

96. What are the receptors for detecting taste called?
Ⓐ Gustatory receptors Ⓑ Olfactory receptors
Ⓒ Sensory receptors Ⓓ Chemical receptors

97. Identify a type of asexual reproduction which involves reproduction through parts of a plant such as roots, stem and leaves.
Ⓐ Vegetative propagation Ⓑ Fragmentation
Ⓒ Fission Ⓓ Budding

98. Which According to Ohm's law, if current (I) increases and potential difference (V) remains constant, then:
Ⓐ resistance increases Ⓑ resistance unchanged Ⓒ resistance decreases Ⓓ None

99. How many atoms are present in one molecule of Ozone?
Ⓐ 1 Ⓑ 2 Ⓒ 3 Ⓓ 4

100. Who The tendency of undisturbed objects to stay at rest or to keep moving with the same velocity is called _____.
Ⓐ momentum Ⓑ force Ⓒ energy Ⓓ inertia