

103

SUITABILITY TEST FOR GRADUATE CATEGORY UNDER
COMPASSIONATE GROUNDS APPOINTMENT
WRITTEN EXAMINATION

DATE : 10.08.2022

Time: 14.00 hrs to 16.00 hrs

VENUE : Divisional Office/TPJ

Total Marks: 100

1. Candidates should write their Name, Roll Number etc. only in the space provided in the fly leaf and **NOT** in any other sheet.
2. The Question paper contains 100 questions
Part I - 35 questions - General Knowledge
Part II - 25 questions - General English
Part III - 40 questions - Arithmetic
3. All questions are compulsory.
4. Each question carries 1 mark.
5. There shall be no negative marks for wrong answers.
6. No corrections / over writings are permitted. If found, the same will not be evaluated

PART I - GENERAL KNOWLEDGE

- Q.1. The capital of Spain is....
(A) Masoorie (B) Madrid (C) Nainital (D) None of these
- Q.2. According to the Constitution of India, which of the following is NOT one of the main organs of the Government?
(A) Legislature (B) Bureaucracy (C) Executive (D) Judiciary
- Q.3. Panchayati Raj comes under....
(A) Residual list (B) Concurrent list (C) State list (D) Union list
- Q.4. Which Indian state is called as 'God's own country'?
(A) Kerala (B) Rajasthan (C) Arunachal Pradesh (D) Orissa
- Q.5. Which Indian state is inhabited by 'Jaintiya tribes'?
(A) Arunachal Pradesh (B) Mizoram (C) Manipur (D) Meghalaya
- Q.6. _____ is also known as 'The Light of Asia'.
(A) Rumi (B) Buddha (C) Gandhi (D) Swami Vivekananda
- Q.7. Which of the following are the different types of Full Moons?
(A) Blood Moons (B) Supermoons (C) Blue Moons (D) All the above
- Q.8. By which process can sea water be purified?
(A) Evaporation (B) Fractional Distillation (C) Filtration (D) Distillation
- Q.9. Which technology is used to squeeze water from the soaked clothes in the washing machine?
(A) Evaporation (B) Decantation (C) Centrifugation (D) Sedimentation
- Q.10. A virus can spread through:
(A) Contaminated food or water
(B) Touch
(C) Coughing
(D) All the above

- Q.11. After which period virus replicates in the body and starts to affect the host?
 (A) Incubation period
 (B) Uncoating
 (C) Penetration
 (D) None of the above
- Q.12. What is the chemical name of cooking salt?
 (A) Sodium Chloride
 (B) Sodium Bi carbonate
 (C) Sodium Carbonate
 (D) Calcium Chloride
- Q.13. Fungi are plants that lack:
 (A) Oxygen (B) Carbon dioxide (C) Chlorophyll (D) None of these
- Q.14. Who has won the Bronze medal in recent Tokyo Olympics' 2021 badminton?
 (A) Sania Mirza (B) Geeta Phogat (C) P V Sindhu (D) Sakshi Malik
- Q.15. Hajipur is headquarter of
 (A) East Central Railway
 (B) South western railway
 (C) South Central railway
 (D) Eastern railway
- Q.16. Which organ of the body produces the fluid known as Saliva?
 A. Mouth B. Pancreas C. Gall bladder D. Kidney
- Q.17. What is the average rate of the heart beats (per minute) in an adult?
 A. 60 B. 72 C. 84 D. 96
- Q.18. Who hoists the flag on Independence Day at Red Fort?
 (A) Prime Minister (B) President (C) Vice President (D) Chief Justice
- Q.19. Who was India's first President?
 (A) V.V.Giri (B) Rajendra Prasad (C) Radha Krishnan (D) Zakhir Hussain
- Q.20. When is 'Kargil Vijay Diwas' celebrated every year across India?
 (A) 26 July (B) 23 Aug (C) 25 June (D) 27 May
- Q.21: What is the head quarter of South Central Railway.
 (A) Gandhi Nagar (B) Secundarabad (C) Mangaluru (D) Bangaluru
- Q.22. India's Longest Railway platform _____.
 (A) Karagpur (B) Mumbai (C) Hyderabad (D) Jaipur
- Q 23: The Chola dynasty was an ancient Tamil Kingdom along the banks of the river
 (A) Kaveri (B) Krishna (C) Godavari (D) Mahanadi
- Q24: Which of the following was called as "Dandi of Tamil Nadu"
 (A) Thirunelveli (B) Vedaranyam (C) Mahabalipuram (D) Cuddalore
- Q 25: The earliest and greatest Tamil epic "Silappatikaram" was written by
 (A) Tiruvalluvara (B) Sattanar (C) Kapilar (D) Ilango Adigal

- Q.26: Growth is provided by
(A) Protein (B) Carbohydrates (C) Fats (D) Minerals
- Q.27: Viruses can be seen through only
(A) Microscope (B) Electron Microscope (C) Telescope (D) Periscope
- Q.28: Constitution of India came into effect from ?
(A) 15 august 1947
(B) 15 January 1948
(C) 10 August 1950
(D) 26 January 1950
- Q.29. Who is Governor of Reserve Bank of India at present ?
(A) C.Rengarajan (B) B.Y.Reddy (C) Bimal Jalan (D) Shaktikanta Das
- Q.30: The first case of novel corona virus was identified in
A. China B. India C. Singapore D. U.S.A
- Q.31 Mariyappan Thangavelu and Sharad Kumar, who won medals in the Tokyo Paralympics, are associated with which sports ?
[A] Weight Lifting
[B] Shooting
[C] High Jump
[D] Javelin Throw
- Q.32: Which is India's smallest state ?
(A) Goa (B) Keraia (C) Sikkim (D) Tripura
- Q.33: The study of plants, animals, microbes and other life forms around us is called
[A] Micro Biology [B] Botany [C] Biology [D] Zoology
- Q.34: In which game Neeraj Chopra won Gold medal for India in Tokyo 2020 Olympic?
(A) Jawlin Throw (B) Swimming (C) Badminton (D) Tennis
- Q.35: Which country is the ex-soviet union constituent?
(A) France. (B) Poland (C) Bulgaria (D) Ukraine

PART II - GENERAL ENGLISH

Direction: In the following questions out of the four alternatives, choose the one which best expresses the meaning of the given word as your answer.

- Q.36: VITAL
(A) important (B) immediate (C) crucial (D) principal
- Q.37: ANNEXURE
(A) attachment (B) development (C) retirement (D) commencement

Direction: In the following questions choose the word opposite in meaning to the given word.

- Q.38: PERFECT
(A) defect (B) complete (C) imperfect (D) ugly

Q.39: ARTISAN

- (A) ignorant villager
- (B) unskilled labour
- (C) skilled sculptor
- (D) learned person

Q.40: AMATEURISH

- (A) skilled
- (B) professional
- (C) seasoned
- (D) trained

Fill in the Blanks with suitable words in the option:

Direction: Find in the blanks with correct Prepositions.

Q.41: My wife works — the town hall.

- (A) in
- (B) on
- (C) at
- (D) by

Q.42: I shall meet you — 6 o'clock.

- A. by
- B. at
- C. in
- D. during

Q.43: My father will retire from service — a year.

- A. of
- B. on
- C. in
- D. by

Q.44: Selvi writes — her left hand.

- A. on
- B. with
- C. in
- D. by

Q.45: Whom are you talking —

- A. to
- B. too
- C. by
- D. over

Q.46: They are interested — reading novels.

- A. by
- B. in
- C. on
- D. at

Q.47: Don't point — my mistakes.

- A. in
- B. at
- C. out
- D. for

Q.48: He will think — the matter.

- A. for
- B. on
- C. at
- D. about

Q.49: I came to live here — 1992.

- A. in
- B. at
- C. by
- D. on

Q.50: I am angry — my sister.

- A. for
- B. to
- C. at
- D. with

DIRECTIONS: find Odd word from options

Q.51: Select the odd one out

- A. Hardware
- B. Keyboard
- C. Ink
- D. Monitor

Q.52: Select the odd one out

- A. Actor
- B. Director
- C. Camera man
- D. Micro Oven

Q.53: Select the odd one out

- A. Spain
- B. Portugal
- C. Germany
- D. Malesia

Q.54: Select the odd one out

- A. Tiger
- B. Lion
- C. Horse
- D. Leopard

Q.55: Select the odd one out

- A. Nepal
- B. Bhutan
- C. Pakistan
- D. Japan

DIRECTIONS : Select the proper suffix..

- Q.56: King
A. en B. er C. hood D. dom
- Q.57: Partner
A. ship B. for C. ice D. dom

Direction: Select the correct spell word.

- Q 58: A. independance B. independence C. indipandence D. endependence
- Q.59: A. Encourage B. Encorage C. Incorage D. Encurage
- Q.60: A. Freedom B. Fredom C. Fridum D. Freedum

Part – iii ARITHMATIC

- Q.61. What least number must be added to 1056, so that the sum is completely divisible by 23?
(A) 2 (B) 3 (C) 18 (D) 21
- Q.62. If 60% of $\frac{3}{5}$ of a number is 36 then the number is
(A) 80 (B) 100 (C) 75 (D) 90
- Q.63. The least multiple of 7 which leaves a remainder of 4, when divided by 6, 9, 15 and 18 is
(A) 74 (B) 94 (C) 184 (D) 364
- Q.64. The HCF of two numbers is 8. Which one of the following can never be the their LCM
(A) 24 (B) 48 (C) 56 (D) 60
- Q.65. $11\frac{1}{4} = 77/?$
(A) 28 (B) $77/28$ (C) 44 (D) 308
- Q.66. The value of $25 - 5[2+3\{2 - 2(5 - 3)+5\} - 10]/4?$
(A) 5 (B) 23.25 (C) 23.75 (D) 25
- Q.67. The average of a non zero number and its square is 5 times the number. The number is
(A) 9 (B) 17 (C) 29 (D) 295
- Q.68. The average of five numbers is 27. If one number is excluded the average becomes 25. The excluded number is
(A) 25 (B) 27 (C) 30 (D) 35
- Q.69: The sum of the present age of a father and his son is 60 years. Six years ago father's age was five times the age of the son. After 6 years son's age will be?
(A) 12 years (B) 14 years (C) 18 years (D) 20 years
- Q.70: The sum ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of youngest child??
(A) 4 years (B) 8 years (C) 10 years (D) None of these
- Q.71: 45% of 750 – 25% of 480 = ?
(A) 216 (B) 217.50 (C) 236.50 (D) 245
- Q.72: 0.01 is what percent of 0.1?
(A) $1/100$ (B) $1/10$ (C) 10 (D) 100
- Q.73: 10% loss on Selling Price is what percent loss on the Cost price?
(A) $9\frac{1}{11}\%$ (B) $9\frac{2}{11}\%$ (C) 10% (D) 11%
- Q.74. If loss is $\frac{1}{3}$ of Selling Price, the loss percentage is ?
(A) $16\frac{2}{3}\%$ (B) 20% (C) 25% (D) $33\frac{1}{3}\%$

- Q.75. A and B can do a job together in 7 days. A is $1\frac{3}{4}$ times as efficient as B. The same job can be done by A alone in ?
 (A) $9\frac{1}{3}$ days (B) 11 days (C) $12\frac{1}{4}$ days (D) $16\frac{1}{3}$ days
- Q.76. A is 30% more efficient than B. How much time will they, working together, take to complete a job which A alone could have done in 23 days
 (A) 11 days (B) 13 days (C) $20\frac{3}{17}$ days (D) None of these
- Q.77. A train covers a distance of 10 km in 12 minutes. If its speed is decreased by 5 km/hr, the time taken by it to cover the same distance will be
 (A) 10 min (B) 11 min 20 sec (C) 13 min (D) 13 min 20 sec
- Q.78. A farmer travelled a distance 61 km in 9 hours. He travelled partly on foot @ 4 km/hr and partly on bicycle @ 9 km/hr. The distance travelled on foot is
 (A) 14 km (B) 15 km (C) 16 km (D) 17 km
- Q.79. A train 240 m long passed a pole 24 seconds. How long will it take to pass a platform 650 m long ?
 (A) 65 sec (B) 89 sec (C) 100 sec (D) 150 sec
- Q.80: What is the square root of 50?
 (A) 5 (B) 8 (C) $5\sqrt{2}$ (D) 4
- Q.81: The speed of a boat in still water is 15 km/hr and the rate of current is 3 km/hr. The distance travelled downstream in 12 minutes is
 (A) 1.2 km (B) 1.8 km (C) 2.4 km (D) 3.6 km
- Q.82: A motor boat whose speed is 15 km/hr in still water goes 30 km downstream and comes back in a total of 4 hours 30 minutes. The speed of the stream (in km/hr) is
 (A) 4 (B) 5 (C) 6 (D) 10
- Q.83: The simple interest on Rs.10 for 4 months at the rate of 3 paise per rupee per month is
 (A) Rs 1.20 (B) Rs. 1.60 (C) Rs. 2.40 (D) Rs. 3.60
- Q.84: The rate at which a sum becomes four times of itself in 15 years at simple interest will be
 (A) 15% (B) $17\frac{1}{2}\%$ (C) 20% (D) 25%
- Q.85: At what rate of compound interest per annum will a sum of Rs. 1200 becomes Rs. 1348.32 in 2 years?
 (A) 6% (B) 6.5% (C) 7% (D) 7.5%
- Q 86: A man borrows Rs. 2550 to be paid back with compound interest at the rate of 4% per annum by the end of 2 years in two equal yearly installments. How much will each installment be ?
 (A) Rs. 1275 (B) Rs. 1283 (C) Rs. 1352 (D) Rs. 1377
- Q 87: A rectangular plot is half as long again as it broad and its area is $\frac{2}{3}$ hectares. Then its length is
 (A) 100 m (B) 33.33 m (C) 66.66 m (D) 78 m
- Q 88: A rectangular carpet has an area of 120 sq. meter and a perimeter of 46 meters. The length of its diagonal is
 (A) 15 m (B) 16 m (C) 17 m (D) 20 m
- Q.89: A swimming pool 9 m wide and 12 m long is 1 m deep on the shallow side and 4 m deep on the deeper side. Its volume is
 (A) 208 m^3 (B) 270 m^3 (C) 360 m^3 (D) 408 m^3

- Q.90: Total surface area of a cube whose side is 0.5 cm is
(A) $1/4 \text{ cm}^2$ (B) $1/8 \text{ cm}^2$ (C) $3/4 \text{ cm}^2$ (D) $3/2 \text{ cm}^2$
- Q.91: At what angle the hands of a clock are inclined at 15 minutes past 5?
(A) $58 \frac{1}{2}^\circ$ (B) 64° (C) $67 \frac{1}{2}^\circ$ (D) $72 \frac{1}{2}^\circ$
- Q.92: How many times are the hands of a clock at right angle in a day?
(A) 22 (B) 24 (C) 44 (D) 48
- Q.93: A person invested in all Rs. 2600 at 4%, 6% and 8% per annum simple interest. At the end of the year, he got the same interest in all the three cases. The money invested at 4% is
(A) Rs 200 (B) Rs. 600 (C) Rs. 800 (D) Rs. 1200
- Q.94. The sum of all two digit numbers divisible by 5 is
(A) 1035 (B) 1245 (C) 1230 (D) 945
- Q.95. The L.C.M of 3, 2.7 and 0.09 is ?
(A) 2.7 (B) 0.27 (C) 0.027 (D) 27
- Q.96: The least number by which 294 must be multiplied to make it a perfect square is
(A) 2 (B) 3 (C) 6 (D) 24
- Q.97. What is the smallest number to be subtracted from 549162 in order to make it a perfect square ?
(A) 28 (B) 36 (C) 62 (D) 81
- Q.98. The average of 7 consecutive numbers is 20. The largest numbers of these is?
(A) 20 (B) 22 (C) 23 (D) 24
- Q.99. If the sum two numbers is 33 and their difference is 15, the smallest number is
(A) 9 (B) 12 (C) 15 (D) 18
- Q.100. What is the sum two consecutive even numbers, the difference of whose squares is 84?
(A) 34 (B) 38 (C) 42 (D) 46

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दक्षिण रेलवे / SOUTHERN RAILWAY
भारत सरकार / GOVERNMENT OF INDIA
रेल मंत्रालय / MINISTRY OF RAILWAYS



99

No.T/Safety/Selection/2022

मंडल कार्यालय / DIVISIONAL OFFICE
संरक्षा शाखा / SAFETY BRANCH
तिरुच्चिरापल्ली / TPJ
दि / Date: 11.08.2022

DPO/TPJ

SUB: Conducting Suitability test for Graduate Category under
Compassionate grounds appointment-Reg.

REF: DPO/TPJ Ir no.T/PC.90/Gr.C/Suit. Test/CGA/AUG/2022 dt.28.07.22

One sealed cover containing Answer Key for the Question Paper
(Objective type) set against the above suitability test that was held on 10.08.2022 is
enclosed herewith for necessary further action at your end please.

Encl: As above

(आर.सरवणन/R. SARAVANAN)

वरिष्ठ मंडल संरक्षा अधिकारी / तिरुच्चिरापल्ली
Sr. Divisional Safety Officer/TPJ

THE KEY
FOR THE QUESTION PAPER SET FOR THE WRITTEN EXAMINATION
FOR SUITABILITY TEST FOR GRADUATE CATEGORY UNDER COMPASSIONATE GROUNDS
APPOINTMENT – on 10.08.2022

| SL NO | ANSWER | SLNO | ANSWER | SLNO | ANSWER |
|-------------------|--------|-----------------|--------|------------|--------|
| GENERAL KNOWLEDGE | | GENERAL ENGLISH | | ARITHMATIC | |
| 1 | B | 36 | C | 61 | A |
| 2 | B | 37 | A | 62 | B |
| 3 | C | 38 | C | 63 | D |
| 4 | A | 39 | B | 64 | D |
| 5 | A | 40 | B | 65 | A |
| 6 | B | 41 | C | 66 | C |
| 7 | D | 42 | B | 67 | A |
| 8 | D | 43 | C | 68 | D |
| 9 | C | 44 | B | 69 | D |
| 10 | D | 45 | A | 70 | A |
| 11 | A | 46 | B | 71 | B |
| 12 | A | 47 | C | 72 | C |
| 13 | C | 48 | D | 73 | A |
| 14 | C | 49 | A | 74 | C |
| 15 | A | 50 | D | 75 | B |
| 16 | A | 51 | C | 76 | B |
| 17 | B | 52 | D | 77 | D |
| 18 | A | 53 | D | 78 | C |
| 19 | B | 54 | C | 79 | B |
| 20 | A | 55 | D | 80 | C |
| 21 | B | 56 | D | 81 | D |
| 22 | A | 57 | A | 82 | B |
| 23 | A | 58 | B | 83 | A |
| 24 | B | 59 | A | 84 | C |
| 25 | D | 60 | A | 85 | A |
| 26 | A | | | 86 | C |
| 27 | B | | | 87 | A |
| 28 | D | | | 88 | C |
| 29 | D | | | 89 | B |
| 30 | A | | | 90 | D |
| 31 | C | | | 91 | C |
| 32 | A | | | 92 | C |
| 33 | C | | | 93 | D |
| 34 | A | | | 94 | D |
| 35 | D | | | 95 | D |
| | | | | 96 | C |
| | | | | 97 | D |
| | | | | 98 | C |
| | | | | 99 | A |
| | | | | 100 | C |


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