



**QUESTION BOOKLET**

**Suitability Test for NTPC/Skilled Artisan Category Under Compassionate Grounds Appointment**

Date of Examination: 19/04/2023

Time : 10:00 hrs. to 12:00 hrs

Marks : 100

**INSTRUCTIONS TO CANDIDATES:**

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 – General Knowledge
  - Part II – General English
  - Part III – Mathematics
3. All questions are compulsory.
4. Each question carries 1 mark.
5. There shall be **no negative mark** for wrong answers.
6. Think well before you write your choice of answer. No corrections/Over writings are permitted. If found, the same will not be evaluated.
7. The question paper consists of 8 pages. Candidates should check whether all pages are available before answering.
8. Any unattended page in the answer sheet must be clearly striked out.
9. Choice of answer should be written in capital letter. For example, A, B, C, D etc

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PART - I (GENERAL KNOWLEDGE)

1.	Pakyong airport is located in			
	A. Sikkim	B. Assam	C. Arunachal Pradesh	D. Nagaland
2.	River Sutlej enters India through which pass?			
	A. Zoji la	B. Nathula	C. Lipulekh	D. Shipki la
3.	In Odisha, iron ores are located in			
	A. Mayurbhanj district	B. Kendujhar District	C. Both A&B	D. Koraput district
4.	Which river forms the boundary between Russia and China?			
	A. Amur river	B. Yangtze river	C. Sikiang river	D. Hwang Ho river
5.	Which country is the leading producer of bauxite?			
	A. India	B. China	C. Brazil	D. Australia
6.	Fatehpur Sikri was founded as the capital of Mughal empire by...			
	A. Babur	B. Humayun	C. Jahangir	D. Akbar
7.	Which veda depicts the information about the most ancient vedic age culture?			
	A. Rigveda	B. Yajurveda	C. Atharvanaveda	D. Samaveda
8.	Who was the first Tirtankaras of the jains?			
	A. Aristhenemi	B. Parshwanth	C. Ajitnath	D. Rishabdev
9.	The Grand canyon is located in which country?			
	A. Canada	B. Bolivia	C. Ghana	D. The U.S
10.	Who wrote the book Ramayana?			
	A. Surdas	B. Kalidas	C. Veda Vyasa	D. Valmiki
11.	After the battle of plassey, ..... was made the nawab of bengal?			
	A. Sirajudhuala	B. Mir jafar	C. Ali vardi khan	D. Mir kasim
12.	The author of the world famous Harry potter series is ...			
	A. Arundhati Roy	B. J.K. Rowling	C. Taslima Nasrin	D. Salman Rusdte
13.	The largest religious edifice in the world, Angkor wat temple is dedicated to which of the following Gods?			
	A. Lord Vishnu	B. Lord Shiva	C. Lord Indra	D. Lord Brahma
14.	In which year Forest conservation Act Passed?			
	A. 1986	B. 1990	C. 1980	D. 1988

15.	Who is the author of the book "Kerala: God's own country"?						
A.	Shashi Tharur	B.	Jeet Thayil	C. Sudha murthy	D.	Thakazhi sivasankara pillai	
16.	Which of the following is a warm-blooded?						
A.	Pigeon	B.	Crocodile	C.	Toad	D.	Fish
17.	Which of the following is the main constituent of Biogas after methane?						
A.	Carbon-di-oxide	B.	Oxygen	C.	Hydrogen	D.	Ammonia
18.	What is the maximum age of a girl eligible for opening an account in Sukanya Samridhi Yojana?						
A.	7years	B.	8 years	C.	9 years	D.	10 years
19.	What is the other name of the sports person Kapil Dev?						
A.	Jumbo	B.	The Haryana hurricane	C.	The Finisher	D.	The Turbanator
20.	Walker cup is associated with which sport?						
A.	Cricket	B.	Football	C.	Fencing	D.	Golf
21.	Ashwini Ponnappa is associated with which game?						
A.	Football	B.	Hockey	C.	Badminton	D.	Chess
22.	Which of the following city is going to host the summer Olympics 2024?						
A.	Beijing	B.	South korea	C.	Sydney	D.	Paris
23.	Ramon Magsaysay award is named after the former president of...						
A.	Philippines	B.	Thailand	C.	Indonesia	D.	None
24.	How many Nobel prize award categories are present?						
A.	10	B.	6	C.	5	D.	8
25.	Which day is celebrated as International day of Yoga?						
A.	June 20	B.	June 21	C.	June 22	D.	June 23
26.	When is National Youth day is celebrated in India?						
A.	12th July	B.	15 <sup>th</sup> December	C.	12 <sup>th</sup> January	D.	12 <sup>th</sup> November
27.	Vyommitra was unveiled by ISRO. What is it?						
A.	Humanoid Robot	B.	Mission to Venus	C.	Manned mission to moon	D.	Name of satellite
28.	The first pico satellite of India is...						
A.	INSAT	B.	STUDSAT	C.	GSAT-4	D.	ANUSAT
29.	Which of the following is formed from the combination of algae and fungi?						
A.	Epiphyte	B.	Mycorrhizal	C.	Mosses	D.	lichens

30.	What is the name of India's second permanent research center in antartica?				
A.	Dakshin Gangotri	B.	Maitri	C. Chakra	D. Swetha
31.	Industrial revolution began with the invention of ...				
A.	Steam engine	B.	Telephone	C. Television	D. Aeroplane
32.	Hitler was the dictator of which country?				
A.	Russia	B.	Egypt	C. France	D. Germany
33.	The Soviet Union broke down in the year...				
A.	1991	B.	1880	C. 2000	D. 1900
34.	Sarojini Naidu was the first lady Governor of which state?				
A.	Madhya Pradesh	B.	Himachal Pradesh	C. Uttar Pradesh	D. Bihar
35.	Who appoints the Governors of Indian states?				
A.	Vice President	B.	President	C. Prime Minister	D. Central Cabinet

PART - II (GENERAL ENGLISH)

36.	Mr. Ram ..... his last book for four months.				
A.	Has been writing	B.	Wrote	C. Had been writing	D. write
37.	Correct word Please ..... This matter.				
A.	Look into	B.	Look after	C. Look to	D. Look upto
38.	You can't ..... a book by its cover.				
A.	Complete	B.	Judge	C. Enjoy	D. Leave
<b>Fill in the blanks</b>					
39.	Add..... milk to the flour.				
A.	a	B.	the	C. of	D. an
40.	Sita pets ..... Parrot.				
A.	the	B.	an	C. a	D. In
41.	Picasso was ..... artist.				
A.	a	B.	the	C. an	D. Of
42.	Are you ..... teacher?				
A.	a	B.	an	C. the	D. Is
43.	I have ..... one year old daughter				
A.	the	B.	a	C. an	D. in

<b>Select the English word which is nearer to the meaning - Synonym</b>							
44.	Compact						
	A.	Minute	B.	Huge	C.	Large	D. Major
45.	Conflict						
	A.	Fight	B.	Harmony	C.	Peace	D. Happy
46.	Follow						
	A.	Prior	B.	Before	C.	Assure	D. Succeed
47.	Eager						
	A.	Fair	B.	Enthusiastic	C.	Danger	D. Complex
48.	Decide						
	A.	Behave	B.	Finish	C.	Join	D. Determine
49.	Delicious						
	A.	Savory	B.	Certain	C.	Evaluate	D. Harm
<b>Select the English word which is opposite to the meaning - Antonym</b>							
50.	Apparent						
	A.	Empty	B.	Hidden	C.	Add	D. Brief
51.	Care						
	A.	Safe	B.	Custody	C.	Protect	D. Neglect
52.	Arrival						
	A.	Departure	B.	Entrance	C.	Approach	D. Entry
53.	Brave						
	A.	Fearlesws	B.	Heroic	C.	Cowardly	D. Valiant
54.	Apart						
	A.	Aside	B.	Distant	C.	Isolated	D. Together
55.	Compulsory						
	A.	Essential	B.	Mandatory	C.	Obligatory	D. Voluntary

**PART - III ( ARITHMETIC)**

56.	Two large and 1 small pumps can fill a swimming pool in 4 hours. One large and 3 small pumps can also fill the same swimming pool in 4 hours. How many hours will it take 4 large and 4 small pumps to fill the swimming pool.(We assume that all large pumps are similar and all small pumps are also similar.)						
	A.	1 hour 40 minutes.	B.	1 hour	C.	2 hour 40 minutes.	D. None
57.	What is $42/4$ in decimal form ?						
	A.	10.5	B.	10	C.	11	D. 13
58.	The value of x in $x - 14 = 20$ is .....						
	A.	24	B.	34	C.	15	D. 6

59.	18 is 150% of what number?	A. 10	B. 13	C. 12	D. 8
60.	What is x if $-(3/5)x = 42$ ?	A. -11	B. -42	C. -60	D. -70
61.	The total age of three kids in a family is 27 years. What will be the total of their ages after three years?	A. 36 years	B. 4	C. 6	D. 5
62.	Find the next term of the arithmetic sequence 177, 173, 169, 165,...	A. 163	B. 161	C. 159	D. 157
63.	Kamal's annual income is Rs. 288000. His annual savings amount to Rs. 36000. What is his total yearly expenditure?	A. 251000	B. 242000	C. 252000	D. 262000
64.	If $\log 2 = 0.30103$ , Find the number of digits in $2^{56}$ is	A. 17	B. 19	C. 23	D. 25
65.	The value of $((1/\log_3 60) + (1/\log_4 60) + (1/\log_5 60))$ is	A. 0	B. 1	C. 5	D. 60
66.	A boat sails 15 km of a river towards upstream in 5 hours. How long will it take to cover the same distance downstream, if the speed of current is one-fourth the speed of the boat in still water:	A. 1.8h	B. 3h	C. 4h	D. 5h
67.	A mixture of 150 litres of wine and water contains 20% water. How much more water should be added so that water becomes 25% of the new mixture?	A. 10 litres	B. 20 litres	C. 30 litres	D. 40 litres
68.	If the length of the diagonal of a square is 20cm, then its perimeter must be	A. $40\sqrt{2}$ cm	B. $30\sqrt{2}$ cm	C. 10 cm	D. $15\sqrt{2}$ cm
69.	A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?	A. 1	B. 2	C. 3	D. 4
70.	The area of the largest circle that can be drawn inside a rectangle with sides 18cm by 14cm is	A. 49	B. 154	C. 378	D. 1078
71.	If the sum of two numbers is 55 and the H.C.F. and L.C.M. of these numbers are 5 and 120 respectively, then the sum of the reciprocals of the numbers is equal to:	A. $55/601$	B. $601/55$	C. $11/120$	D. $120/11$
72.	The L.C.M of 22, 54, 108, 135 and 198 is	A. 330	B. 1980	C. 5940	D. 11880

73.	If 7 spiders make 7 webs in 7 days, then 1 spider will make 1 web in how many days?			
	A. 1	B. 3	C. 7	D. 14
74.	3 pumps working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day?			
	A. 9	B. 10	C. 11	D. 12
75.	If an object travels at five feet per second, how many feet does it travel in one hour?			
	A. 30	B. 3000	C. 18	D. 1800
76.	What least number must be subtracted from 13601, so that the remainder is divisible by 87 ?			
	A. 23	B. 31	C. 29	D. 25
77.	Find the odd one out? 396, 462, 572, 427, 671, 264.			
	A. 671	B. 462	C. 427	D. 264
78.	In 10 years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B, the present age of B is :			
	A. 19	B. 29	C. 39	D. 49
79.	There are four prime numbers written in ascending order of magnitude. The product of the first three is 385 and of the last three is 1001. Find the fourth number ?			
	A. 17	B. 13	C. 19	D. 21
80.	A man sitting in a train which is traveling at 50 kmph observes that a goods train, traveling in opposite direction, takes 9 seconds to pass him. If the goods train is 280 m long, find its speed in kmph.?			
	A. 60	B. 62	C. 64	D. 65
81.	By selling 45 lemons for Rs 40, a man loses 20%. How many should he sell for Rs 24 to gain 20% in the transaction ?			
	A. 18	B. 6	C. 20	D. 22
82.	A bag contains 50 Paise, 25 Paise and 10 Paise coins in the ratio 5: 9: 4, amounting to Rs. 206. Find the number of coins of each type respectively.			
	A. 360,160,200	B. 160,360,200	C. 200,360,160	D. 200,160,300
83.	A person crosses a 600 m long street in 5 minutes, What is his speed in km per hour?			
	A. 3.6	B. 7.2	C. 8.4	D. 10
84.	The ratio between the speeds of two trains is 7: 8. If the second train runs 400 kms in 4 hours, then the speed of the first train is ?			
	A. 83.5 km/hr	B. 84.5 km/hr	C. 86.5 km/hr	D. 87.5 km/hr
85.	12 men can complete a work in 8 days. 16 women can complete the same work in 12 days. 8 men and 8 women started working and worked for 6 days. How many more men are to be added to complete the remaining work in 1 day?			
	A. 8	B. 12	C. 16	D. 24
86.	If each edge of a cube is increased by 50%, find the percentage increase in its surface area			
	A. 125%	B. 150%	C. 175%	D. 110%

87.	What was the day on 15th august 1947 ?						
A.	Friday	B.	Monday	C.	Sunday	D.	Tuesday
88.	What is the value of $\sin 0^\circ + \cos 90^\circ$ ?						
A.	1	B.	0	C.	$\infty$	D.	1/4
89.	If $5^a = 3125$ , then the value of $5^{(a-3)}$ is :						
A.	25	B.	125	C.	625	D.	1625
90.	The value of $\sqrt{6 + \sqrt{6 + \sqrt{6 + \sqrt{6}} \dots}}$ is:						
A.	4	B.	3	C.	3.5	D.	-3
91.	If you write down all the numbers from 1 to 100, then how many times do you write number "3" ?						
A.	11	B.	18	C.	20	D.	21
92.	There are 6561 balls are there out of them 1 is heavy. Find the minimum number of times the balls have to be weighted for finding out the heavy ball ?						
A.	2414	B.	204	C.	8	D.	87
93.	If $(3 + 2\sqrt{5})^2 = 29 + K\sqrt{5}$ , then what is the value of K ?						
A.	12	B.	6	C.	29	D.	39
94.	The wrong number in the sequence 8, 13, 21, 32, 46, 62, 83, is						
A.	32	B.	46	C.	62	D.	83
95.	If $\left(\frac{3}{5}\right)^x = \frac{81}{625}$ , then what is the value of x ?						
A.	3	B.	4	C.	5	D.	6
96.	If a cube has surface area S and volume V, then the volume of the cube of surface area 4S will be						
A.	2V	B.	4V	C.	6V	D.	8V
97.	If one of the zeroes of cubic polynomial is $x^3+ax^2+bx+c$ is -1, then product of other two zeroes is:						
A.	b-a-1	B.	b-a+1	C.	a-b+1	D.	a-b-1
98.	If three sides of a triangle are equal, it is called....						
A.	Isosceles triangle	B.	Equilateral triangle	C.	Scalene triangle	D.	Right angled triangle
99.	If the selling price of 10 pens is equal to cost price of 14 pens, then the gain percentage is						
A.	20%	B.	30%	C.	40%	D.	45%
100.	Simplify $\frac{4}{15} \div \frac{2}{5}$						
A.	$\frac{1}{2}$	B.	$\frac{2}{3}$	C.	$\frac{3}{4}$	D.	$\frac{1}{5}$

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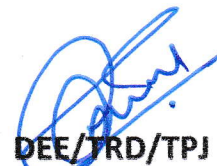
**Answer Key of Suitability Test for NTPC/Skilled Artisan Category Under  
Compassionate Grounds Appointment Dated 19.04.2023**

1	A
2	D
3	C
4	A
5	D
6	D
7	A
8	D
9	D
10	D
11	B
12	B
13	A
14	C
15	A
16	A
17	A
18	D
19	B
20	D
21	C
22	D
23	A
24	B
25	B
26	C
27	A
28	B
29	D
30	B

31	A
32	D
33	A
34	A
35	B
36	C
37	A
38	B
39	B
40	C
41	C
42	A
43	B
44	A
45	A
46	D
47	B
48	D
49	A
50	B
51	D
52	A
53	C
54	D
55	D
56	A
57	A
58	B
59	C
60	D

61	A
62	B
63	C
64	A
65	B
66	B
67	A
68	A
69	C
70	B
71	C
72	C
73	C
74	D
75	D
76	C
77	C
78	C
79	B
80	B
81	A
82	C
83	B
84	D
85	B
86	A
87	A
88	A
89	A
90	B

91	C
92	C
93	A
94	C
95	B
96	D
97	B
98	B
99	C
100	B



DEE/TRD/TPJ

मं. नि. इ. उ. टी. आर. डी. तिरुचिपल्लि

DEE / TRD / TPJ