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QUESTION BOOKLET

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

Date of Examination: 10/05/2022

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 9 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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MARKS: 1 x 100 = 100

PART – I (GENERAL KNOWLEDGE)

1.	Which one among the following Union Territories of India is the smallest in geographical area?						
	A.	Puducherry	B.	Daman and Diu	C.	Chandigarh	D.	Lakshadweep
2.	Which of the following is the first biosphere reserve of India?						
	A.	Sunderbans	B.	Nilgiri	C.	Nanda Devi	D.	Pachmari
3.	Chabahar port has strategic importance for India. The port is located in						
	A.	Iran	B.	Iraq	C.	Saudi Arabia	D.	Oman
4.	The Kolkata port is situated on/in the						
	A.	Ganga Sagar	B.	Bay of Bengal	C.	River Hoogly	D.	River Bhagirathi
5.	Which of the following Dam is built on the Betwa River?						
	A.	Lavkush Barrage	B.	Rihand Dam	C.	Sharda Barrage	D.	Rajghat Dam
6.	Which one of the following lakes in India has the highest Water salinity?						
	A.	Sambhar	B.	Wular	C.	Dal	D.	Chilka
7.	Which of the following country have common frontier with the Indian State like Uttarakhand, Uttar Pradesh, Bihar, West Bengal and Sikkim?						
	A.	China	B.	Nepal	C.	Bhutan	D.	Myanmar
8.	Where does the Palk Strait lies?						
	A.	Sri Lanka and Maldives	B.	India and Sri Lanka	C.	India and Maldives	D.	Both A & B
9.	Which of the following neighboring country of India shares its borders with maximum number of Indian states?						
	A.	China	B.	India	C.	Pakistan	D.	Nepal
10.	The Buland Darwaza, a famous Mughal architectural monument is located in						
	A.	Agra Fort	B.	Red Fort	C.	Fatehpur Sikri	D.	None of these
11.	Which was the first newspaper published in India?						
	A.	Samachar Darpan	B.	Bengal Gazette	C.	Mumbai Samachar	D.	The Times of India
12.	Who was the first Satyagrahi of the Individual Satyagraha Movement?						
	A.	Sarojini Naidu	B.	C. Rajagopalachari	C.	Vinoba Bhave	D.	Subhash Chandra Bose
13.	Who among the following founded the Forward Bloc in 1939?						
	A.	Mahatma Gandhi	B.	Sardar Vallabhbhai Patel	C.	Subhas Chandra Bose	D.	Jawaharlal Nehru

14.	Who among the following was the first European to come to India?							
	A.	Portuguese	B.	British	C.	French	D.	Dutch
15.	Who was the first Mughal ruler of India?							
	A.	Sher Shah Suri	B.	Babur	C.	Humayun	D.	Akbar
16.	Pin valley National Park is situated in _____							
	A.	Andhra Pradesh	B.	Arunachal Pradesh	C.	Himachal Pradesh	D.	Madhya Pradesh
17.	Which of the following is on UNESCO's 'World Heritage' site list?							
	A.	Chambal Gharial Sanctuary	B.	National Desert Park	C.	Ranthambore Tiger Project Park	D.	Keoladeo National Park
18.	Added to the UNESCO list of World Heritage Sites in 2014, the Great Himalayan National Park is located in which state of India?							
	A.	Uttarakhand	B.	Haryana	C.	Himachal Pradesh	D.	Punjab
19.	Which of the following is an example of an agricultural price support program?							
	A.	Price ceiling	B.	Price floor	C.	Equilibrium pricing	D.	None of the above
20.	What type of economy is followed in India?							
	A.	Communist	B.	Capitalist	C.	Mixed	D.	Socialist
21.	The other name of Yarlung Tsangpo river in India is							
	A.	Ganga	B.	Indus	C.	Brahmaputra	D.	Mahanadi
22.	What kind of weather do Kharif crops require?							
	A.	Hot and wet	B.	Hot and dry	C.	Cold and wet	D.	Cold and dry
23.	In which one of the following types of coal, higher percentage of carbon is found?							
	A.	Anthracite coal	B.	Lignite coal	C.	Peat coal	D.	Bituminous coal
24.	The existence of more than one level of government in any country is called							
	A.	Democracy	B.	Federalism	C.	Universal Adult Franchise	D.	Monarchy
25.	In which Schedule of the Indian Constitution are the 22 scheduled languages included?							
	A.	Tenth schedule	B.	Eighth schedule	C.	Twelfth schedule	D.	Ninth schedule
26.	How many members are present in the WTO?							
	A.	207	B.	195	C.	160	D.	164
27.	Which of the following goods are taxed under Goods and Services Tax (GST), India?							
	A.	CNG	B.	Liquor	C.	Petrol	D.	Gold Jewellery

28.	In which year did the government decided to remove barriers on foreign trade and investment in India?						
	A.	1993	B.	1992	C.	1991	D.	1990
29.	Cooperative banks that fall under the banking regulation act of 1949 are controlled by						
	A.	NABARD	B.	National Cooperative Union of India	C.	Reserve Bank of India	D.	None of the above
30.	Nitrogen is absorbed by the plants in the form of						
	A.	Ammonium	B.	Nitrites	C.	Nitrates	D.	All of these

PART – II (GENERAL ENGLISH)

31.	Which of the given below words spelt correctly?						
	A.	Accomodate	B.	Acommodate	C.	Accommodate	D.	Accommodat
32.	Which of the given below words spelt correctly?						
	A.	Alleince	B.	Villain	C.	Sustein	D.	Pleintive
33.	*Fill in the blanks with the correct pronoun from the given options.* Somebody stole my watch. Thank God, ... is a cheap one.						
	A.	this	B.	it	C.	these	D.	those
34.	*Fill in the blanks with the correct pronoun from the given options.* Sunita saw her uncle and ran to meet						
	A.	her	B.	it	C.	him	D.	he
35.	*Fill in the blanks with the proper tense from the given options.* He ..... out five minutes ago.						
	A.	has gone	B.	gone	C.	had gone	D.	went
36.	*Fill in the blanks with the proper tense from the given options.* I ..... Rohan at the zoo.						
	A.	saw	B.	have seen	C.	seen	D.	see
37.	*Fill in the blanks with the appropriate word from the given options.* He ..... her that she would pass.						
	A.	assured	B.	insured	C.	ensured	D.	assumed
38.	*Fill in the blanks with the appropriate word from the given options.* Your father ..... worry. I'm a very careful driver.						
	A.	doesn't	B.	none	C.	needn't	D.	can't
	Fill in the blanks (39-43)						
39.	Please give me ..... cake that is on the counter.						
	A.	an	B.	a	C.	the	D.	in

40.	..... apple a day keeps the doctor away.						
	A.	the	B.	an	C.	a	D.	is
41.	..... church on the corner is progressive.						
	A.	a	B.	the	C.	an	D.	of
42.	"What ..... wonderful day!" said the tourist.						
	A.	an	B.	the	C.	in	D.	a
43.	Do you want ..... orange?						
	A.	an	B.	the	C.	a	D.	of
	Select the English word which is nearer to the meaning - Synonym						
44.	CHASTE						
	A.	Liberated	B.	Divine	C.	Defiled	D.	Pure
45.	ASSERTION						
	A.	Discussion	B.	Rejection	C.	Declaration	D.	Continuation
46.	VIRTUE						
	A.	Impurity	B.	Vice	C.	Dignity	D.	Iniquity
47.	Prodigious						
	A.	Proud	B.	Unimportant	C.	Immense	D.	Exciting
48.	PRUDENT						
	A.	Hasty	B.	Cautious	C.	Reckless	D.	Rude
49.	Garnish						
	A.	Adorn	B.	Encourage	C.	Wonder	D.	Wander
	Select the English word which is opposite to the meaning – Antonym						
50.	EMPATHY						
	A.	Sympathy	B.	Appreciation	C.	Warmth	D.	Apathy
51.	INSTANT						
	A.	Similar	B.	Gradual	C.	Prompt	D.	Diverse
52.	PLUNGE						
	A.	Dive	B.	Duck	C.	Rise	D.	Auction
53.	Aversion						
	A.	Liking	B.	Avoidance	C.	Awareness	D.	Hatred
54.	Pompous						
	A.	Arrogant	B.	Calm	C.	Impatient	D.	Humble
55.	PROVOKE						
	A.	Encourage	B.	Beckon	C.	Appease	D.	Stimulate

PART – III (ARITHMETIC)

56.	The number of multiples of 4 between 10 and 250 is						
	A.	50	B.	40	C.	60	D. 30
57.	$\frac{log\sqrt{8}}{log\,8}$ is equal to						
	A.	$\frac{1}{6}$	B.	$\frac{1}{4}$	C.	$\frac{1}{2}$	D. $\frac{1}{8}$
58.	If $log_x(\frac{9}{16}) = -\frac{1}{2}$, then x is equal to						
	A.	$-\frac{3}{4}$	B.	$\frac{3}{4}$	C.	$\frac{81}{256}$	D. $\frac{256}{81}$
59.	A travels 15 km with a speed of 30 km/h. He travels another 25 km with a speed of 10 km/h. What is his average speed for the entire journey?						
	A.	40/3 kmph	B.	80/3 kmph	C.	20 kmph	D. 12 kmph
60.	A 5 kg mass at rest on a frictionless table is acted upon by a constant force of 12 N. The distance travelled by it in 2s is						
	A.	1.2 m	B.	2.4 m	C.	4.8 m	D. 9.6 m
61.	Speed of a car is 20 m/s. How much distance (in km) will the car travel in 2.5 hours?						
	A.	144	B.	72	C.	180	D. 108
62.	The size of an iron block is 15 cm × 10 cm × 20 cm. How many such blocks will be needed for the construction of a solid iron cube of minimum size?						
	A.	90	B.	72	C.	120	D. 60
63.	If the ratio of the number is 3 : 5 and their HCF is 25. Then, what is the LCM of these two numbers?						
	A.	275	B.	225	C.	425	D. 375
64.	Three cups of ice cream, two burgers and four soft drinks together cost Rs. 128. Two cups of ice cream, one burger and two soft drinks together cost Rs. 74. What is the cost of five burgers and ten soft drinks?						
	A.	Rs.160	B.	Rs.128	C.	Rs.170	D. Cannot be determined
65.	The circumference of a circle is 264 m. The ratio of area to diameter is:						
	A.	66	B.	84	C.	132	D. 42
66.	If the side of a square increases by 20%, then what will be a percent increase in its perimeter?						
	A.	44%	B.	20%	C.	80%	D. 40%
67.	Point on the x-axis which is equidistant from (2,–5) and (–2,9) is:						
	A.	(–7,0)	B.	(–14,0)	C.	(7,0)	D. (14,0)

68.	If the distance between the points (4,p) and (1,0) is 5, then the value of p is:						
	A.	4 only	B.	±4	C.	-4 only	D.	0
69.	Solve the following absolute value equation. $\|3x + 12\| = 6$						
	A.	{-2}	B.	{-6}	C.	{-2,-6}	D.	No solutions
70.	Solve the following equation $\sqrt{3x + 13} = x + 1$						
	A.	{-3}	B.	{-4}	C.	{-3, 4}	D.	No solution
71.	The product of the ages of Swati and Aparna is 120. If thrice the age of Aparna is more than Swati's age by 2 years, find the age of Swati.						
	A.	18	B.	21	C.	24	D.	16
72.	The perimeter of an equilateral triangle is $132\sqrt{3}$ cm, then find the height of the equilateral triangle.						
	A.	66 cm	B.	44 cm	C.	99 cm	D.	132 cm
73.	If (a – b) = 3 and ab = 70, then find the value of $(a^3 - b^3)$.						
	A.	657	B.	783	C.	840	D.	580
74.	If x + 1/x = 1, then, find the value of $x^2 + \frac{1}{x^2} + 6$ is						
	A.	4	B.	5	C.	6	D.	8
75.	If the angles of a triangle are in the ratio 2 : 3 : 7 then the largest angle is:						
	A.	90^o	B.	105^o	C.	120^o	D.	150^o
76.	Find the area(in cm^2) of an equilateral triangle if the side of the triangle is $(2 \times 3\frac{1}{4})$ cm						
	A.	3	B.	4	C.	9	D.	16
77.	There were 120 students who went for summer camp. 20 students joined them after some time, due to which the cost of consumption increased by Rs. 80 per day and the average cost of each student decrease by Rs. 5. Find the initial consumption of each student.						
	A.	Rs.37	B.	Rs.39	C.	Rs.41	D.	Rs.43
78.	How many digits will be there in the cube root of 46656?						
	A.	2	B.	1	C.	3	D.	4
79.	A wheel makes 12 revolutions in one minute. Find the angle (in radian) described by a spoke of the wheel in 1 second:						
	A.	2π/3	B.	2π/7	C.	2π/5	D.	3π/5
80.	The cost of the article was Rs. 15500 and Rs. 500 was spent on its repairing. If it is sold for a profit of 15%. The selling price of the article is:						
	A.	Rs.16400	B.	Rs.17400	C.	Rs.18400	D.	Rs.19400

81.	$\sqrt[4]{\sqrt[3]{3^2}}$ Equals:						
	A.	$3^{\frac{-1}{6}}$	B.	$3^{\frac{1}{6}}$	C.	3^{-6}	D. 3^6
82.	The value of $\sqrt[4]{(16)^{-2}}$						
	A.	1/4	B.	1/2	C.	4	D. 1/16
83.	The linear equation 3x-11y=10 has						
	A.	Unique solution	B.	Two solutions	C.	Infinitely many solutions	D. No solutions
84.	The graph of the linear equation 5x + 3y = 10 is a line which meets the x-axis at the point:						
	A.	(0,3)	B.	(3,0)	C.	(2,0)	D. (0,2)
85.	If ABCD is a trapezium in which AB || CD and AD = BC, then:						
	A.	$\angle A = \angle B$	B.	$\angle A > \angle B$	C.	$\angle A < \angle B$	D. None of the above
86.	If a triangle and a parallelogram are on the same base and between same parallels, then the ratio of the area of the triangle to the area of the parallelogram will be:						
	A.	1:2	B.	3:2	C.	1:4	D. 1:3
87.	A committee of 4 is to be formed from among 4 girls and 5 boys. What is the probability that the committee will have number of boys less than number of girls?						
	A.	$\frac{2}{9}$	B.	$\frac{4}{9}$	C.	$\frac{4}{5}$	D. $\frac{1}{6}$
88.	If P(A) = 2/3 and P(B) = 5/8 and find probability of only B occurring if probability of only A occurring is 1/6?						
	A.	1/8	B.	1/9	C.	1/6	D. 2/9
89.	The probability of Sita, Gita and Mita passing a test is 60%, 40% and 20% respectively. What is the probability that at Sita and Gita will pass the test and Mita will not?						
	A.	38.4%	B.	60%	C.	4.8%	D. 19.2%
90.	Sum of mode and median of following data is 12, 15, 11, 13, 18, 11, 13, 12, 13						
	A.	25	B.	26	C.	31	D. 36
91.	The ratio of the area of a square to that of the square drawn on its diagonal is:						
	A.	2:1	B.	1:2	C.	1:4	D. 1:1
92.	If a parallelogram is inscribed in a circle, then the parallelogram is:						
	A.	Square	B.	Rectangle	C.	Trapezium	D. None of these
93.	A triangle has vertices (1, 6), (3, 0) and (-3, -7). Its area in square units is						
	A.	10	B.	25	C.	30	D. 40

94.	A car travels some distance at a speed of 8 km/hr and returns at a speed of 12 km/hr. If the total time taken by the car is 15 hours, then what is the distance (in km)?						
	A.	48	B.	60	C.	56	D.	72
95.	Vishnu travelled equal distances at speeds of 10 km/hr., 30 km/hr., and 8 km/hr., and took a total of 15.5 minutes to complete. Find the total distance he travelled, in km.						
	A.	1	B.	3	C.	4	D.	2
96.	Two trains are going from Bangalore to Chennai with a speed of 80km/hr and 100km/hr. If the train with slower speed starts 1 hour before then find the time taken by the second train to catch the 1st train.						
	A.	6 hours	B.	5 hours	C.	4 hours	D.	8 hours
97.	If the circumference of a circle is equal to the perimeter of square, then which one of the following is correct?						
	A.	Area of circle = Area of square	B.	Area of circle > Area of square	C.	Area of circle < Area of square	D.	None of these
98.	If a coin is tossed thrice, the probability of getting at least two tail is						
	A.	2/3	B.	1/2	C.	3/4	D.	1/8
99.	The following observations are arranged in ascending order. The median of the data is 15 find the value of x. 8, 11, 12, x + 6, 17, 18, 23						
	A.	15	B.	9	C.	11	D.	None of these
100	A box has 8 red balls and 8 green balls. Two balls are drawn randomly is succession from the box without replacement. The probability that the first ball drawn is red and the second ball drawn is green is						
	A.	4/15	B.	7/16	C.	½	D.	8/15

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Answer Key of Suitability Test for NTPC/Skilled Artisan Category Under Compassionate Grounds Appointment Dated 10/05/2022

1	D		31	C		61	C		91	B
2	B		32	B		62	B		92	B
3	A		33	B		63	D		93	B
4	C		34	C		64	C		94	D
5	D		35	D		65	A		95	B
6	A		36	B		66	B		96	C
7	B		37	A		67	A		97	B
8	B		38	C		68	B		98	B
9	D		39	C		69	C		99	B
10	C		40	B		70	C		100	A
11	B		41	B		71	A			
12	C		42	D		72	A			
13	C		43	A		73	A			
14	A		44	D		74	B			
15	B		45	C		75	B			
16	C		46	C		76	A			
17	D		47	C		77	B			
18	C		48	B		78	A			
19	B		49	A		79	C			
20	C		50	D		80	C			
21	C		51	B		81	B			
22	A		52	C		82	A			
23	A		53	A		83	C			
24	B		54	D		84	C			
25	B		55	C		85	A			
26	D		56	C		86	A			
27	D		57	C		87	C			
28	C		58	D		88	A			
29	C		59	A		89	D			
30	D		60	C		90	B			