JECA-2017 APTITUDE TEST

Time Allowed: I Hour

Maximum Marks: 50

50200070

Booklet No.

INSTRUCTIONS

Candidates should read the following instructions carefully before answering the questions:

- This Question Paper contains 50 MCQ type objective questions. Each question has four answer options given, viz. A, B, C and D.
- 2. Only one answer is correct. Correct answer will fetch full marks 1. Incorrect answer or any combination of more than one answer will fetch $-\frac{1}{3}$ marks. No answer will fetch 0 marks.
- 3. Questions must be answered on OMR sheet by darkening the appropriate bubble marked A, B, C, and D.
- 4. Use only Black/Blue ball point pen to mark the answer by complete filling up of the respective bubbles.
- 5. Mark the answers only in the space provided. Do not make any stray mark on the OMR.
- 6. Write question booklet number and your roll number carefully in the specified locations of the OMR. Also fill appropriate bubbles.
- Write your name (in block letter), name of the examination centre and put your full signature in appropriate boxes in the OMR.
- 8. The OMRs will be processed by electronic means. Hence it is liable to become invalid if there is any mistake in the quesion booklet number or roll number entered or if there is any mistake in filling corresponding bubbles. Also it may become invalid if there is any discrepancy in the name of the candidate, name of the examination centre or signature of the candidate vis-a-vis what is given in the candidate's admit card. The OMR may also become invalid due to folding or putting stray marks on it or any damage to it. The consequence of such invalidation due to incorrect marking or careless handling by the candidate will be sole responsibility of candidate.
- Rough work must be done on the question paper itself. Additional blank pages are given in the question paper for rough work.
- 10. Handover the OMR to the invigilator before leaving the Examination Hall.

JEAPT-2017 Please Turn Over



Space for Rough Work

nrecos á ·····



JECA - 2017 APTITUDE

1. The average of x_1, x_2, x_3 and x_4 is 16. Half the sum of .	x_2, x_3, x_4 is 23. What is the value of x_1 ?	
(A) 19	(B) 18	
(C) 17	(D) 20	
2. What is the perimeter of the rectangle ABCD, when A	AD = 3 and $BD = 5$ (Shown in the following figure)?	
A B		
3 5		
D C		
(A) 16	(B) 14	
(C) 18	(D) 20	
2. January Wadanadan an July 15, 1064. What was the de-		
3. It was Wednesday on July 15, 1964. What was the day		
(A) Wednesday	(B) Thursday	
(C) Friday	(D) Saturday	
4. Ranjan is taller than Randhir, but not as tall as Ajit. If I	Manoi is taller than Nitin who is shorter than Ajit then	
who among them is the shortest?	manoj is tanor man ritini, who is shorter man rijit, then	
(A) Nitin	(B) Manoj	
(C) Ranjan	(D) Data Inadequate	
5. Which of the following is the smallest?		
(A) 15/16	(B) 16/6	
(C) 7/8	(D) 11/12	
6. The multius of the need in a South Dalhi Club is turing the	ha radius of the need in a North Delhi Club. The area of	
6. The radius of the pool in a South Delhi Club is twice the radius of the pool in a North Delhi Club. The area of the pool in South Delhi Club is how many times the area of pool in the North Delhi Club?		
(A) 1/4	(B) 1/2	
(C) 2	(D) 4	
7. In a class there are two sections A and B. If 10 student	ts of section B shift over to section A, the strength of A	
becomes three times the strength of B. But if 10 students s	hift over from A to B, both A and B become equal in	
strength. How many students are there in sections A and B?		

(B) 45 and 15

(D) 80 and 40

(A) 50 and 30

(C) 90 and 40



8. 'A' is the sister of 'B'. 'C is the husband of 'B'. 'C' is the brother of 'H'. What is the relation of 'H' and 'A'?				
	(A)	Son	(B)	No Specific Relation
	(C)	Sister-in-law	(D)	Brother-in-law
9.	The	length and breadth of a rectangular floor are 16.25	5 met	re and 12.75 metre respectively. Find how many
minim	um n	umber of square tiles would be required to cover i	it cor	mpletely?
	(A)	315	(B)	3315
	(C)	3513	(D)	5331
10.	Two	third of two-fifth of three-fourth of a number is 36	5. Wh	at is the square root of four-fifth of that number?
	(A)		(B)	
	(C)		(D)	
	,-,		, ,	
11.	If '+'	'implies 'subtract', '*' implies 'division', '-' implies	s 'add	lition', '/' implies 'multiply' then $5 - 3/6*3 + 4 = ?$
	(A)	6	(B)	5
	(C)	7	(D)	8
12.	Arra	nge the following in a meaningful sequence:		
		Letter	2.	Sentence
		Word		Phrase
				2, 1, 3, 4
	25	1, 2, 4, 3 2, 4, 1, 3		1, 3, 4, 2
	(0)	2, 4, 1, 3	(1)	1, 2, 7, £
13.	Атта	nge the following in a meaningful sequence:		
	1.	Knowledge	2.	Data
	3.	Information	4.	Wisdom
	(A)	1, 4, 2, 3	(B)	2, 3, 1, 4
	(C)	2, 1, 3, 4	(D)	1, 4, 3, 2
• •	~		• .	20. The language was beautiful.
14.		e numbers are in the ratio 4:5:6 and their averages		
	(A)		(B)	
	(C)	36	(D)	42
15. Find the missing number				
		5 8 3		
		1 2 7 7 7 7 7		
		4(42)3 7(?)5 9(36)2		
	(A)	50 6 2 6	(B)	51
	(C)		(D)	

(B) 2.75

16. Find the value of X, where $(55)^{3.5} * (55)^{X} = 55^{8}$.

(A) 2.25

(C)	3.5	(D)	4.5
17. If th	e price of rice rises from Rs. 6 per kg to	Rs 8 ner ko	, to have no increase in his expenditure on rice,
	ill have to reduce his consumption of rice		, to have no mercase in ins expenditure on rice,
2000	25%	2500-0000 2500-0000	19%
(C)	12%	(D)	32%
	ose the number pair/group which is differ		
	40:50		30:36
C.	8:10	d.	28:35
e.	16:20		
(A)	40:50	(B)	30:36
(C)	8:10	(D)	28:35
10		- C 1 - 1	
		s from a whol	e seller. If he sells these pens giving a discount of
	s the profit percentage?	(D)	5 2 0/-
10000000	10.6%	96.765	5.3 %
(C)	12%	(D)	7.6%
20. Ass	ume that there are three statements follows	ed by several o	conclusions. You have to take the given statements
			known facts and then decide which of the given
	(s) logically follows.	-	
Stat	ements:	Conclusion:	
a. All	Pens are Tables I.	Some tables	are chalk.
b. Son	ne tables are rulers.	Some pens a	re chalk.
c. Son	ne rulers are chalk. III.	Some rulers	are pens.
	IV.	Some chalk	are rulers.
(A) Onl	y IV follows (B)	Only II and I	follows
(C) Onl	y III follows (D)	Only I, II and	d III follows
26	•	20	
21. If '&' implies 'Add', '@' implies 'multiply', '#' implies 'subtract', '\$' implies 'division', then $12 \& 3 @ 2 # 32 $ 4 = ?$			
	12	(B)	10
10° 2000000			
(C)	13	(D)	144
			JEAPT-2017



O			
22.	The product of two numbers is 266 and their difference		
	(A) 13	(B)	Dronger.
	(C) 18	(D)	19
23.	P sells an article to Q at 10% profit. Q sells it to R at 25%		
	(A) 162.30	12 120	193.5
	(C) 181.81	(D)	162.50
24.	If TIER is written as 7163 and BRAIN is written as 23	3415,	how is RENT coded ?
	(A) 7536	(B)	7653
	(C) 3765	(D)	3657
	In the following sequence of alphabets, which letter we	ould l	be at the middle of the fourth and sixteenth letters
from 1	the right ?		
	ABCDEFGHIJKLMNOPQRSTUVW	1100251337	A-770
	(A) T	(B)	М
	(C) N	(D)	Q
26.	If $5x + y = 15$, $5y + z = 25$ and $2z + x = 2$, what is the	value	of x ?
	(A) 12	(B)	9
	(C) 7	(D)	2
	If 'Pink' is called 'Orange', 'Orange' is called 'Blue', 'ed 'Black' and 'Black' is called 'White', what would be		
	(A) Red		Green
	(C) Blue		Orange
28. A boy sitting in a train counts the electricity poles along the line as he passes them. If they are 40m apart and the speed of the train is 48 km/h, how many poles does he pass per minute?			
400000 60°	(A) 20	(B)	21
	(C) 23		24
29.	Of the six cities.		
	1. Delhi is bigger than Bengaluru		
	11. Kolkata is bigger than Hyderabad.		
III. Mumbai is not as big as Kolkata, but is bigger than Bengaluru.			
	IV. Bengaluru is smaller than Hyderabad, but bigger Which one is smallest?	man	i runc.
	3.10.000000.000000000000000000000000000	(D)	Vollege
	(A) Hyderabad	00000000	Kolkata
	(C) Bengaluru	(D)	Pune



	ting to Pooja in the photograph, Gita said, "Her d	augh	ter's father is son-in-law of my mother." How is		
(A)	Mother	(B)	Sister		
(C)	Daughter-in-law	(D)	Aunt		
31. Regi	ression analysis method of quantitative analysis of		10 10 10 10 10 10 10 10 10 10 10 10 10 1		
(A)	all data points	(B)	one data point		
(C)	two data points	(D)	four data points		
32. A st statement.	atement is followed by several conclusions. Choo	ose tl	ne conclusions which logically follow the given		
Stat	ement:				
Exh	austed passengers take chilled soft drinks to feel re	efresl	ned instantly.		
	clusion:				
Ī.	Exhausted passengers dislike hot beverages.				
	Exhausted passengers occasionally need to get in	stant	ly refreshed.		
	III. Soft drinks, when served chilled, make one feel refreshed instantly.				
IV.	IV. Unchilled soft drinks do not make one feel refreshed instantly.				
(A)	Only I and IV follow	(B)	Only III and IV follow		
(C)	Only I, II and III follow	(D)	All I, II, III and IV follow		
	ox contains 2 white, 3 black and 5 red balls. In how	v ma	ny ways can three balls be drawn from the box if		
at least one	black ball is to be included in the draw?	0_0			
(A)	29	(B)			
(C)	48	(D)	85		
34. Pointing towards Rahul, Meena said, "He is the son of only son of my grandmother". How is that Rahul related to Meena?					
(A)	Brother	(B)	Cousin		
17000000	Uncle	(D)	Data Insufficient		
35. How many 9's are present in the following sequence of numbers which are preceded by 5 but not followed by 7? 596828859753985947385948906593802					
(A)	5	(B)	3		
(C)	4	(D)	More than 4		
36. Ran	nesh's age after 16 years will be 5 times his age 4	years	back. What is the present age of Ramesh?		
(A)	9	(B)	14		
(C)	18	(D)	21		
			JEAPT-2017		



* ·

37. If (a) '1 2 3' stands for 'These are girls', (b) '135' stands for 'girls are clever' and (c) '156' stands for 'Clever girls sing', which numerical stands of 'clever'?

(A) I

(B) 2

(C) 5

(D) 6

38. In a certain code 'LIGHT' is written as 'KJFIS'. How is 'PLUGH' written in that code?

(A) OMTHG

(B) QMTHG

(C) OMTFG

(D) OMTGH

39. A number is as much greater than 36 as is less than 80. Find the number.

(A) 32

(B) 36

(C) 49

(D) 5

40. Pick the odd man out: 154, 235, 352,460, 324

(A) 154

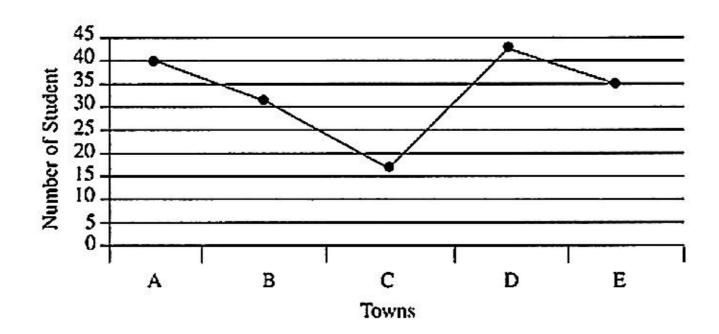
(B) 235

(C) 324

(D) 460

41. Study the following Graph and answer the question:

Number of students appearing for Aptitude Test from various towns (Number in Thousands).



What is the average number of students appearing for Aptitude Test from all the Towns together?

(A) 33.5

(B) 3350

(C) 17500

(D) 33500

		2		
42.	Following the graph and information given in questi	ion i	num	ber 41 answer the question:
h	The number of students appearing for the Aptitude of students appearing for the Aptitude from Town (110	m town D is approximately what percent of the
1011110	(A) 243		(R)	413
				134
	(C) 314	,	,,,	134
43.	Find the average of all the numbers between 11 and	36	whi	ch are divisible by 5.
	(A) 15		(B)	
	(C) 25	((D)	30
44.	The population of a city is 160000. If it increases at the	he ra	ate c	of 6% per annum, then what will be its population
2 year	s hence?			
	(A) 268942		6500000	186935
	(C) 167425		(D)	179776
45.	A dice is rolled twice. What is the probability of get	tting	g su	m 9?
	(A) 2/3		(B)	1/3
	(C) 1/9	•	(D)	1/6
46.	Sum of products of three numbers taken two at a ti	ime	is I	31. Sum of squares of the three numbers is 138.
	is the sum of the three numbers?			
	(A) 25		(B)	20
	(C) 22		(D)	30
	A, B and C enter into partnership. A advances R			
C Rs.	1,000 for 10 months. They gain Rs.585 altogether. Fi			
	(A) Rs. 195			Rs. 252
	(C) Rs. 225		(D)	Rs. 212
48. Total age of A and B is 12 years more than the total age of B and C. By how many years is C younger than A?				
	(A) 12 years		(B)	24 years
	(C) 21 years		(D)	Data insufficient
49. Radius of a circle is increased by 6%, determine the increase in area of the circle.				
	(A) 12%		(B)	12.36%
	(C) 12.64%		(D)	6%
50.	What is the smallest number which is a perfect squa	are :	and	is divisible by 16, 20 and 24?
579655-5	(A) 1600		(B)	2400
	(C) 3600		(D)	7200



Space for Rough Work





Space for Rough Work



JECA-2017 APTITUDE TEST

नगर ३ ५ घणा

मर्वाधिक नश्चत्र ३ ৫०

Booklet No.

निर्फ्गाविन

পরীক্ষার্থীদের উত্তর দেওয়ার পূর্বে নির্দেশাবলি ভালো করে পড়ে নিতে হবে:

- ১। এই প্রশ্নপত্রে 50টি MCQ ধরনের প্রশ্ন দেওয়া আছে। প্রতিটি প্রশ্নের A, B, C এবং D এই চারটি সম্ভাব্য উত্তর দেওয়া আছে।
- ২। সঠিক উত্তর দিলে । নম্বর পাবে। ভূল উত্তর দিলে অথবা যে-কোনো একাধিক উত্তর দিলে 🛶 নম্বর পাবে। কোন উত্তর না দিলে শূন্য পাবে।
- ৩। OMR পত্রে A. B. C অথবা D চিহ্নিত সঠিক ঘরটি ভরাট করে উত্তর দিতে হবে।
- 8। OMR পত্রে উত্তর দিতে শুধুমাত্র কালো/নীল বল পয়েন্ট পেন ব্যবহার করবে।
- ৫। OMR পত্রে নির্দিষ্ট স্থান ছাড়া অন্য কোথাও কোনো দাগ দেবে না।
- ৬। OMR পত্রে নির্দিষ্ট স্থানে প্রশ্নপত্রের নম্বর এবং নিজের রোল নম্বর অতি সাবধানতার সাথে লিখতে হবে এবং প্রয়োজনীয় ঘরগুলি পূরণ করতে হবে।
- ৭। OMR পরে নির্দিষ্ট স্থানে নিজের নাম ও পরীক্ষাকেন্দ্রের নাম লিখতে হবে এবং নিজের সম্পূর্ণ স্বাক্ষর দিতে হবে।
- ৮। OMR উত্তরপত্রটি ইলেকট্রনিক যন্ত্রের সাহায্যে পড়া হবে। সূতরাং, প্রশ্নপত্রের নম্বর বা রোল নম্বর ভূল লিখলে অথবা ভূল ঘর ভরাট করলে উত্তরপত্রটি অনিবার্য কারণে বাতিল হতে পারে। এছাড়া পরীক্ষার্থীর নাম, পরীক্ষা কেন্দ্রের নাম বা স্বাক্ষরে কোনো ভূল থাকলেও পত্র বাতিল হয়ে যেতে পারে। OMR উত্তরপত্রটি ভাঁজ হলে বা তাতে অনাবশ্যক দাগ পড়লেও বাতিল হয়ে যেতে পারে। পরীক্ষার্থীর এই ধরনের ভূল বা অসতর্কতার জন্য উত্তরপত্র বাতিল হলে একমাত্র পরীক্ষার্থী নিজেই তার জন্য দায়ী থাকবে।
- ৯। প্রশ্নপত্রে রাফ কাজ করার জন্য ফাঁকা জায়গা দেওয়া আছে। অন্য কোনো কাগজ এই কাজে ব্যবহার করবে না।
- ১০। পরীক্ষাকক ছাড়ার আগে OMR পত্র অবশ্যই পরিদর্শককে দিয়ে যাবে।

