arks : 50

Booklet No.

85122446

JECA-2018

Subject : APTITUDE

Time: 1 Hour Full Marks: 50

Instructions

- All questions are of objective type having four answer options for each. Only one option is correct. Correct answer will carry full mark 1. In case of incorrect answer or any combination of more than one answer, ¼ mark will be deducted.
- Questions must be answered on OMR sheet by darkening the appropriate bubble marked A, B, C or D.
- 3. Use only Black/Blue ball point pen to mark the answer by complete filling up of the respective bubbles.
- 4. Do not make any stray mark on the OMR.
- 5. 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.
- 7. The OMRs will be processed by electronic means. Hence it is liable to become invalid if there is any mistake in the question 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.
- 8. Candidates are not allowed to carry any written or printed material, calculator, docu-pen, log table, any communication device like mobile phones etc. inside the examination hall. Any candidate found with such items will be reported against and his/her candidature will be summarily cancelled.
- Rough Work must be done on the question paper itself. Additional blank pages are given in the question paper for Rough Work.
- 10. Hand over the OMR to the invigilator before leaving the Examination Hall.

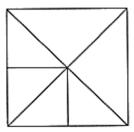
SPACE FOR ROUGH WORK

Apt/JA-2 2

,	(A)		55914	(B)	57194	(C	:)	55934	(D)	55745
2.	. Al	oag Rs	g contains 1-rupee s. 780, find the n	e, 50- umb	paisa and 25 er of 1-rupee	-paisa co e, 50-pais	oin sa	ns in the ratio 5 : 6 and 25-paisa co	5 : 7. ins.	If the total amount
	(A)	:	200, 240, 280			(B)	4	100, 480, 560		
	(C)		400, 380, 560			(D)	4	100, 440, 520		
3.	A c	ity lite	y has a population erate. If 70% of th	of 3 he m	,00,000 out o ales are liter	of which ate, the	l,i	80,000 are males umber of literate	50% fema	6 of the population ales is
	(A)	2	20,000	(B)	24,000	(C)		30,000	(D)	34,000
4.	The	e c	ost price of an arti of the article is	icle is	s Rs. 100. To	gain 50%	ьа	after allowing a 50°	% di:	scount, the market
	(A)	F	Rs. 200	(B)	Rs. 400	(C)	1	Rs. 350	(D)	Rs. 300
5. If RUNNER is coded by SUMMER, the code for WINTER will be										
	(A)	X	KIMSER	(B)	VINTER	(C)	5	SINVER	(D)	VIOUER
 A man borrows Rs. 1,200 from a bank for a period of 3 months. He finds that he has to repay Rs. 1,236. The bank rate of yearly interest is 										
	(A)	3	%	(B)	6%	(C)	1	12%	(D)	24%
7.	18 I	er	three persons we sons took Maaza inks.	ent tonly,	to a canteen 8 took Pepsi	which only and	sc 1 5	old cold drink % took nothing, fin	Maaz d ho	a' and 'Pepsi'. If w many took both
	(A)	3	5	(B)	21	(C)	1	12	(D)	26
Apt/J	A-2					3				[P.T.O.

1. In a code language 35796 is written as 44887. Find the code for 46823.

8. How many triangles are there in the given figure?



- (A) 10
- (B) 16
- (C) 12
- (D) 8

Unscramble the letters of words and find odd one out.

- (A) TLAES
- (B) KOBO
- (C) PPREA
- (D) NCEPLI

10. If 2x + 3y = 10 and y < 4, then

- (A) x > -1
- (B) x < -1 (C) x > 0
- (D) x < 0

11. If $X \varphi Y$ means X is the wife of Y, X \$ Y means X is the son of Y and $X \psi Y$ means X is the sister of Y, which of the following would mean that A is the daughter of B?

- (A) A\$C ψ D φ B
- (B) $A \circ C D \vee B$
- (C) $A \psi C \phi D \$ B$
- (D) $A \psi C D \phi B$

12. The clinic of a Doctor faces the West. From the backside of his clinic, he walks straight 100 metres then turns to the left and walks 100 metres again. Finally, he turns towards right and stops after walking 50 metres. Now in which direction is Doctor from the starting point?

- (A) South-West
- (B) North-East
- (C) South-East
- (D) North-West

13. Find the wrong number in the following series :

1, 2, 4, 7, 13, 24, 54, 81

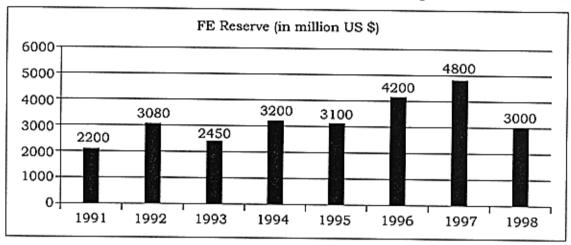
- (A) 13
- (B) 24
- (C) 54
- (D) 81

14. A letter series is given below. Some of the letters of this series which are given in the same order in one of the alternative are missing. Find out that alternative.

- (A) lnmml
- (B) mlmnn
- (C) mnnlm
- (D) nmnll

- 15. JDME : AGBL :: FENA : ?
 - (A) AFEP
- (B) EJDO
- (C) BHCM
- (D) DICN

- 16. 9% of 50 + 8% of 24 ? = 5.4
 - (A) 18·3
- (B) 1·83
- (C) 1·02
- (D) 10·2
- 17. Study the following graph showing the yearly foreign exchange reserves of a country:



- The foreign exchange reserve in 1997 was how many times that in 1994?
- (A) 1·5
- (B) 2
- (C) 3·5
- (D) 2·6
- 18. With reference to the figure in question no. 17, for which year, the percent increase of foreign exchange reserves over the previous year is the highest?
 - (A) 1994
- (B) 1995
- (C) 1998
- (D) 1992

- 19. Ignorance : Education :: Disease : ?
 - (A) Medicine
- (B) Doctor
- (C) Nurse
 - (D) Hospital
- 20. Which one of the following is the correct option in place of the question mark?

 AOP, CQR, EST, GUV, ?
 - (A) IYZ
- (B) HWX
- (C) IWX
- (D) JWX

21.	36,	34, 30, 28, 24,	. W	nat number should	d cor	ne next?		,		
	(A)	20	(B)	22	(C)	23	(D)	26		
22.		ch one set of letters plete it?	s wh	en sequentially pla	ced a	at the gaps in the g	given	letter series shall		
	"bca _ b _ aabc _ a _ caa"									
	(A)	acab	(B)	bcbb	(C)	cbab	(D)	ccab		
23.		ch one set of letters plete it?	s wh	en sequentially pla	ced	at the gaps in the	given	letter series shall		
		-		"_ op _ mo _ n	_ pnr	nop_"				
	(A)	mnpmon	(B)	mpnmop	(C)	mnompn	(D)	mnpomn		
24.	A told B, "The girl I met yesterday was the youngest daughter of the brother-in-law of my friend's mother." How is the girl related to A's friend?									
	(A)	Niece	(B)	Cousin	(C)	Friend	(D)	Daughter		
25.	Mar	athon is to race a	s hi	bernation is to						
	(A)	winter	(B)	bear	(C)	dream	(D)	sleep		
26.	gran	nan pointing to a ph ndmother." How is er sister?	notos the	graph says, "The la lady in the photo	dy in grapl	the photograph is n related to the ma	my : an's	nephew's maternal sister who has no		
	(A)	Mother-in-law	(B)	Cousin	(C)	Sister-in-law	(D)	Mother		
27.	not	members of a fami the mother of <i>B. A</i> 4. <i>F</i> is the brother	4 an	d C are married co	ouple	E is the brother	of C.	ne son of C but C is D is the daughter family?		
	(A)	4	(B)	3	(C)	2	(D)	1		

28.	Fin	d the odd one am	ong	the following :					
·	(A)	17	(B)	37	(C)	27	(D)	47	
29.	Fin	d the odd one am	ong 1	the following :					
	(A)	SORE	(B)	SOTLU	(C)	NORGAE	(D)	MEJNIAS	
30.	A's bot	mother's father is h male?	the	husband of <i>B</i> 's m	othe	r. How is A relate	d to	B, if A and B are	
	(A)	Uncle	(B)	Father	(C)	Nephew	(D)	Son	
31.	Hov	w is David' father's	only	/ daughter-in-law's	son	n's wife related to	Davi	d?	
	(A)	Daughter	(B)	Daughter-in-law	(C)	Niece	(D)	Granddaughter	
32.	In a class of 165 students, 45 students are passed in Mathematics as well as in English, whereas 60 students are failed in Mathematics and 65 students are failed in English. How many students are passed in exactly one subject?								
	(A)	160	(B)	100	(C)	115	(D)	165	
33.		h reference to the h the subjects?	probl	em given in Quest	ion l	No. 32, How many	stu	dents are failed in	
	(A)	25	(B)	20	(C)	45	(D)	5	
34.		h reference to the p math?	oroble	em given in Questi	on N	o. 32, How many s	tude	nts are failed only	
	(A)	55	(B)	60	(C)	65	(D)	70	
35.	The	unit digit in the	produ	act (624×708×91	3×46	53) is			
	(A)	2	(B)	5	(C)	6	(D)	8	
36.	Give	en that $\sqrt{12} = 3.46$	4 and	i √120 = 10·95, fin	d th	e value of √1·2+v	120	0+√0.012.	
	(A)	32·164	(B)	35·844	(C)	36·164	(D)	37-304	
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37.		-third of a positive	nur	mber and 16/216	of it	s reciprocal are ed	qual.	Find the positive		
	(A)	9/25	(B)	14/4	(C)	4/12	(D)	144/25		
38.	(100	$(0)^6 / 10^{15} = ?$								
	(A)	10	(B)	100	(C)	1000	(D)	10000		
39.	The average weight of three boys P , Q and R is 54 kg, while the average weight of three boys Q , S and T is 60 kg. What is the average weight of P , Q , R , S and T ?									
	(A)	66·4 kg	(B)	63·2 kg	(C)	58·8 kg	(D)	Data inadequate		
40.	In Daya's bag there are 3 books of History, 4 books of Science and 2 books of Maths. In how many ways can Daya arrange the books so that all the books of same subject are together?									
	(A)	9	(B)	6	(C)	8640	(D)	1728		
41.		ells a car to B at 10° for A was	% los	ss. If B sells it for R	s. 54	1,000 and gains 20	%, tł	ne cost price of the		
	(A)	Rs. 25,000	(B)	Rs. 50,000	(C)	Rs. 37,500	(D)	Rs. 60,000		
42.	If the sum of two numbers is 31 and their product is 240, then find the absolute difference between the numbers.									
	(A)	1	(B)	3	(C)	4	(D)	5		
43.	$(32)^2 - (20)^2 = 52a$, then find the value of a.									
	(A)	13	(B)	14	(C)	12	(D)	11		
44.	13-	$05 \times 4 \cdot 5 \div 0 \cdot 5 = ?$								
	(A)	1170.5	(B)	117.05	(C)	117·45	(D)	11.745		
45.	A contractor employs a worker for 60 days at the rate of Rs. 20 per day. If the worker is absent on any day, he does not get any pay and also has to pay a penalty of Rs 10. The worker gets Rs. 300 at the end of the term. Find for how many days the worker was absent.									
	(A)	28	(B)	30	(C)	34	(D)	40		

46. Statement :

The World Bank estimates that India is one of the highest-ranking countries in the world for the number of children suffering from malnutrition.

Action :

- Government, People and various NGOs should come together and try to eradicate the problem.
- Government should take financial help from foreign countries to eradicate this problem.
- (A) Only I follows

(B) Only II follows

(C) Either I or II follows

(D) Neither I nor II follows

47. Statement:

According to a survey, the current water reservoir will deplete by 50% by 2050.

Action:

- Government of all the countries should appeal to all the citizens to use water carefully and avoid wastage.
- II. Scientists should start finding an alternative solution to water.
- (A) Only I follows

(B) Only II follows

(C) Either I or II follows

(D) Neither I nor II follows

48. Statement:

An advertisement of a company XYZ—"If you are a software engineer we want to hire you".

Conclusion:

- I. Company hires no person with other qualification.
- II. Company XYZ is in need of software engineers.
- (A) Only conclusion I follows

(B) Only conclusion II follows

(C) Either conclusion I or II follows

(D) Neither conclusion I nor II follows

49. If SNOW is coded as 7100, then WALL will be coded as

(A) 5000

(B) 4700

(C) 4800

(D) 4000

50. Bowl : Soup :: Plate : ?

(A) Spoon

(B) Coffee

(C) Rice

(D) Dish

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SPACE FOR ROUGH WORK

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