AJU Common Entrance Test [AJU CET 2021] - SAMPLE QUESTION PAPER

Course: B. Tech [Lateral]

Time :....

Total Marks:

Section – A [ENGLISH]

1.	They usually spend their holi a. no article b. a	idays in mountains.
	c. an d. the	
2.	I can't live on	500 dollars a month.
	a. no article b. a c.	an d. the
3.	We in Minsk since 19	75.
	a.had been living	b. has been living
	c. have been living	d.are living
4.	By next December, I for	this company for 5 years.
	a. have been working	b. will had worked
	c. will have worked.	d. will had been working
5.	Do not take any notice a. about	_ him. b. on
	c. of	d. in

<u>Section – B [Physics]</u>

1. Which of these rays have the highest ionising power?

(a) Beta	(b) Alpha
(c) Gamma	(d) All have the same

2. Which of the following is the mirror formula?

(a) v + u =f	(b) 1/v + 1/u = 1/f
(c) 1/v + 1/u = f	(d) None of the above

3. Which of the following principles is used to define the First law of Thermodynamics?

(a) Conservation of mass	(b) Conservation of energy
(c) Conservation of momentum	(d) Conservation of charge

4. How many joules are there in one calorie?

(a) 3.186 J	(b) 4.186 J
(c) 5.186 J	(d) 6.186 J

5. What is the S.I. unit of power of a lens?

(a) Metre (c) Dioptre	(b) Watt (d) Second <u>Section – C [Chemistry]</u>		
1. The total number of periods in the periodic	table is		
(a) 6 (c) 8	(b) 7 (d) 9		
2. P1V1/T1 = P2V2/T2			
(a) Combined gas law (c) Boyle's law	(b) Charle's law (d) None		
3. Bronsted-Lowery theory, an acid is a			
(a) Proton acceptor	(b) Electron acceptor		
(c) Proton donor	(d) Electron donor		
4. Which one of the following is used as common salt			
(a) NaCl (c) NaHCO₃	(b) NaOH (d) Na ₂ CO ₃		
5. The oxidation number of O in CaO ₂ is			
(a) +2 (c) -1	(b) -2 (d) 0		
Section	on – D [Math]		
1. If two positive integers a and b are written as $a = p^3q^2$ and $b = pq^3$; p, q are prime numbers, then HCF (a, b) is:			
(A) pq (B) pq^2 (C) p^3q^3 (D) p^2q^2			
2. The largest number which divides 70 and 1	25, leaving remainders 5 and 8, respectively, is		
(A) 13 (B) 65 (C) 875 (D) 175	50		

3. A rectangular field has an area of 3 sq. units. The length is one more than twice the breadth 'x'. Frame an equation to represent this.

A) x2 – 2x+6=0 B) x2 – 2x+3=0 C)2x2+x-3=0 D)2x2+x-6=0

4. The square of (5x + 1) is equal to 16. What is x?

A) x = 4, ¼ B)x =- 1,3/5 C)x = 1,3/2 D)x= -1, 4/5

5. If the third and the ninth terms of an AP are 4 and -8 respectively, which term of this AP is zero?

A) 5th B)4th C) 3rd D) 6th

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	c. will have worked.	d. will hac	l been workin	ıg	
5.	Do not take any notice a. about	him. b. on		c. of	d. in
		Section ·	<u>– B [</u> Logical R	easoning <u>]</u>	
1.	my friend's mother." How is		d to Sita's frien	d?	brother of the brother-in-law of
	a. Cousin		b.	sister	
(c. Friend		d.	Niece	
2.	 Based on the given stateme conclusions. Statements: Some apples are oranges. All oranges are grapes. Some grapes are lichis. No pine is orang 	nt and few con	iclusions, choo	se the right st	atement which gives the correct
	Conclusions: I. All pines being grapes is a p II. All apples being pines is a III. No orange is lichi.				
	a. Only I & III follow				b. Only I follow
	c. Only II follows				d. None of the above

the		-		rrangements. E is fourth to the right of B. A is to left of A. H is between G and C. Who is seated
a.	G	b.		С
с.	В	d.		Н
tł is	aan 3 persons, E is lighter than F. The	e second heaviest arranging the per	t per	weight.C is lighter than only A. D is heavier son is of 74 kg and the second lightest person in ascending order of their weight find the
a.	В	b.		D
с.	С	d.		F
A + B A - B A * B A / B	the following information carefully means A is brother of B means A is father of B means A is uncle of B means A is sister of B			-
From	the given expression P - Q + R / S w	hich of the follow	wing	
a.	P is the aunt of S	b.		P is the son of S
c.	P is the uncle of S	d.	•	none of the above
	<u> -</u>	Section – C [Mat	then	<u>natics]</u>
1. For son	ne integer m, every odd integer is of	the form		
(4	A) m (B) m	+ 1		
(0	C) 2m (D) 2m	n + 1		
2. The pro	duct of a non-zero number and an ir	rrational number	r is:	
(4	A).Always irrational	(B) Always rat	tiona	al
(0	C) Rational or irrational	(D) One		
3.The larg	est number which divides 70 and 12	5, leaving remair	nder	s 5 and 8, respectively, is
(4	N) 13	(B) 65		
(0	C) 875	(D) 1750		
4. The H.(C.F of 441, 567 and 693 is			
(4	N) 1	(B) 441		
(0	C) 126	(D) 63		
5. lf α,β a	re the zeros of the polynomial, x2-px	$\alpha + 36$ and $\alpha 2 + \beta 2$	2 = 9,	, then what is the value of p?
А) 6	В) З		
C	9	D) 8		

Section – D [Science]

1. The nucleus of an atom consists of					
	(a) Electrons and neutrons	(b) Electrons and protons			
	(c) Protons and neutrons	(d) All of the above			
2. T	ne number of moles of solute present in 1	kg of a solvent is called its			
	(a) Molality	(b) Molarity			
	(c) Normality	(d) Formality			
3. The most electronegative element among the following is					
	(a) Sodium	(b) Bromine			
	(c) Fluorine	(d) Oxygen			
4. O	hm is a unit of measuring				
	(a) Resistance	(b) Voltage			
	(c) Current	(d) None of the above			
5. Which of the following pairs represent two scalar quantities?					
	(a) Mass, Acceleration	(b) Distance, Speed			

(c) Temperature, Torque (d) Gravitational Intensity, Work

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	c. an d. the				
2.	I can't live on	500 dolla	rs a month.		
	a. no article b. a	c. an	d. the		
3.	We in Minsk since	e 1975.			
	a.had been living	b. has bee	n living		
	c. have been living	d. are livir	ng		
4.	By next December, I	_ for this cor	npany for 5	years.	
	a. have been working	b. will ha	id worked		
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5.	Do not take any notice_ a. about	him. b. on		c. of	d. in
		Section	<u>n – B</u> Logical F	Reasoning]	
1	. Sita told Gita, "The girl I me my friend's mother." How i				brother of the brother-in-law of
	a. Cousin		b.	sister	
	c. Friend		d.	Niece	
2	 Based on the given statemet conclusions. Statements: Some apples are oranges. All oranges are grapes. Some grapes are lichis. No pine is orang 	ent and few co	nclusions, cho	ose the right st	atement which gives the correct
	Conclusions: I. All pines being grapes is a II. All apples being pines is a III. No orange is lichi.				
	a. Only I & III follow				b. Only I follow
	c. Only II follows				d. None of the above

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a. G		b.	C
с. В		d.	н
than 3 p is of 41	persons, E is lighter than F. The	second heaviest perranging the person	nt weight.C is lighter than only A. D is heavier erson is of 74 kg and the second lightest person n in ascending order of their weight find the
a. B		b.	D
c. C		d.	F
A + B mean A - B mean A * B mean	ollowing information carefully a ns A is brother of B ns A is father of B ns A is uncle of B ns A is sister of B	nd answer the que	stions given below-
From the g	iven expression P - Q + R / S wh	ich of the followin	g is true?
a. Pi	is the aunt of S	b.	P is the son of S
c. Pi	s the uncle of S	d.	none of the above
	<u>Si</u>	ection – C [Mathe	matics]
1. For some inte	eger m, every odd integer is of t	he form	
(A) m	(B) m +	+1	
(C) 2m	(D) 2m	+ 1	
2. The product o	of a non-zero number and an irr	ational number is:	
(A).Alwa	ays irrational	(B) Always ratior	nal
(C) Ratio	onal or irrational	(D) One	
3.The largest nu	mber which divides 70 and 125	, leaving remainde	ers 5 and 8, respectively, is
(A) 13		(B) 65	
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4. The H.C.F of 4	141, 567 and 693 is		
(A) 1		(B) 441	
(C) 126		(D) 63	
5. If α,β are the	zeros of the polynomial, x2-px ·	+36 and α2 + β2 =	9, then what is the value of p?
A) 6		B) 3	
C) 9		D) 8	

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Course: MBA Time :....

Total Marks :

Section – A [ENGLISH]

Choose the word/group of words which is most OPPOSITE in meaning of the word printed in bold as used in the passage. [Choose the correct option i. e (a , b, c, d)]

1.	Enormous :							
	a.	Gignatic	b.	Huge				
	с.	Insignificant	d.	Meticulous				
2.	Transpa	irency:						
	a.	Clarity	b.	Fairness				
	C.	Dullness	d.	Concealment				

3. IGNITE:

a.	Clarity	b.	Fairness
с.	Dullness	d.	Concealment

In these questions, choose the word from the alternatives (a), (b), (c) and (d) that is similar in meaning to the word given in capital letters.

4.	GIST:			
	a.	Contribution	b.	Substance
	с.	Prestige	d.	Accessory
5.	SOLICIT	OUS:		
	a.	Nonchalant	b.	Firm
	C.	Reverential	d.	Worried

<u>Section – B</u>Logical Reasoning]

a.	Cousin	b.	sister	
c.	Friend	d.	Niece	
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ä	a. Only I & III follow		b. Only I follow	
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tł	-	-	r arrangements. E is fourth to the right ne left of A. H is between G and C. Who	
a.	G	b.	С	
	В	d.	н	

than 3 persons, E is lighter than F. The second heaviest person is of 74 kg and the second lightest person is of 41 kg. E is not the lightest. After arranging the person in ascending order of their weight find the person who comes immediately after E.

a.	В	b.	D

c. C d. F

5. Study the following information carefully and answer the questions given below-

A + B means A is brother of B

A - B means A is father of B

- A * B means A is uncle of B
- A / B means A is sister of B

From the given expression P - Q + R / S which of the following is true?

- a.P is the aunt of Sb.P is the son of S
- c. P is the uncle of S d. none of the above

Section – C [Quantitative Aptitude]

- The marked price of an article for sale is 20% of its cost price. How much percent does the dealer gain by allowing a discount of 15%?
 a) 5%
 b) 7%
 c) 10%
 d) 6.25%
- A shopkeeper allows a discount of 22.5% on the marked price of a certain article and makes a profit of 40%. If the article costs the shopkeeper Rs.155, then the marked price of the article will be:
 a) 380 b) 280 c) 480 d) 180
- 3. The Simple Interest on Rs.5000 in 4 years @ y% p.a. equals the Simple Interest on Rs.8000 @ 10% p.a. in 2 years. Find the value of y.
 a) 4% b) 16% c) 32% d) 8%
- 4. If x distance is covered at speed and half of this distance is covered in double the time. Then find the ratio of the two speeds.
 a) 2:1
 b) 4:1
 c) 3:1
 d) 1:1
- 5. If a bus travels at 20 km/hr, it reaches the destination late by 11 minutes. But if it runs at 25 km/hr, it reaches late only by 5 minutes. Find the exact time in which the bus will complete the journey without getting late?

a) 19 minutes b) 20 minutes c) 16 minutes d) 21 minutes