DAV ADMISSION TEST(DATCSP) for COMMERCE & HUMANITIES

ID NO.			

TIME : 3 HOURS (1.30 P.M. TO 4.30 P.M.)



Guidelines to the Candidates:

- This Booklet contains 12 printed pages and some blank pages for rough work. Any defect found should be brought to the notice of the invigilator immediately.
 Fill in the particulars in the OMR Sheet given to you separately as per the directions given therein.
 Use Blue/Black Ball Point Pen only for writing particulars/marking responses in OMR Sheet. Use of Pencil is strictly prohibited.
 This test is of THREE hours duration.
- 5. There are four choices in every question as A, B, C and D. There is only one correct response for each question. Each question carries 4 marks.
- (i) The test consists of 100 multiple choice questions comprising Mental Ability (20); Mathematics (30), Social Science (20), English (30) carrying maximum of 400 marks.
 - (ii) -1 mark will be awarded for each wrong answer/multiple answer.
 - (iii) No mark will be awarded for any overwriting/scratching answer.
- 7. No candidate shall leave his/her seat during the examination.
- 8. Do not tear/remove any page of this booklet.
- 9. Calculation, if any, may be done at the blank pages of this booklet provided at the end for rough work.
- 10. Calculator and other electronic gadgets are not allowed.
- 11. After finishing the test the OMR Sheet is to be handed over to the invigilator before leaving the Examination Hall.

FASCIMILE STAMP

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09.	Whi	ch of the follo	owing pairs h	as the s	second	person	sitting imn	nediately to	the right of the fi	irst?
	(a)	AB	(b)	СВ		(c)	EA	(d)	GC	
10.	Wha	at is the posit	ion of F?							
	(a)	Third to the	e left of C			(b)	Second	to the right	of C	
	(c)	To the imm	ediate left of	A		(d)	None of	f these		

Directions (Q. Nos. 11 - 13) In each of the following questions, four numbers are given out of these, three are alike in a certain way but the one is different. Choose the one which is different from the rest three.

11. (a) 21	(b)	39	(c)	51	(d)	83
12. (a) 372164	(b)	376821	(c)	318951	(d)	319446
13. (a) 11	(b)	13	(c)	15	(d)	17

14. If Anita is taller than Surjit but shorter than Kusum and Surjit is just as tall as Kalpana but taller than Vanita, then Kalpana is

(a)	just as tall as Anita	(b)	taller than Kusum
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(c) Shorter than Anita (d) Shorter than Surjit

15. Alok walked 30 m towards East and took a right turn and walked 40 m. He again took a right turn and walked 50 m towards. Which direction is he from his starting point ?

(a). South (b) West (c) South-West (d) South-East

16. In a queue of children,Kashish is fifth from the left and Mona is sixth from the right. When they interchange their places between them, Kashish becomes thirteenth from the left. What will be Mona's position from the right?

(a) 4th (b) 8th (c) 14th (d) 15th

17. The priest told the devotee, "The temple bell rings at regular intervals of 45 min. The last bell was rung 5 min ago. The next bell is due to ring at 7 : 45 am". At what time did the priest give this information to the devotee ?

(a) 7:40 am (b) 7:05 am (c) 7:00 am (d) 6:55 am

Directions (Q. Nos. 18 - 20) In each of the following question, group the given figures into three classes using each figure only once.



20.		(2)	(3)	(4)	(5)				
	(6)	(7)	(8)	(9)					
	(a)	1,4,6				(b)	2,3,8	
		2,3,8						4,5,7	
		5,7,9						1,6,9	
	(c)	5,7,9	. •			(d)	1,4,6	
		3,4,8						2,3,5	
		2,9,1						6,7,8	

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				MATHE	MATI	CS		
21.	lf (x +	⊦ y) = 12 and xy	= 32, ther	$\left(\frac{1}{x} + \frac{1}{y}\right)$ is	equal to	•		
	(a)	2 8	(b)	<u>1</u> 8	(c)	<u>1</u> 2	(d)	<u>3</u> 8
22.	In th	e figure below, F	PQ = QS,	QR = RS and	I ∠SRQ :	= 100°. Find 2	QPS	
1				P	S 100° R			
	(a)	20°	(b)	40°	(c)	15°	(d)	35°
23.	If cos	at price of a fan i	is Rs.720.	If there is a p	rofit of 16	$6\frac{2}{3}\%$. Then ,	sale pric	e is
	(a)	Rs.840	(b)	Rs.940	(C)	Rs.1050	(d)	None of these
24.	lf ∠A	$x = (3x - 5), \angle B =$	=(5x+8),	$\angle C = (7x - 3)$), then th	e value of x in	ABC	is
	(a)	12°	(b)	24°	(c)	28°	(d)	30°
25.	If tar	$A = \frac{5}{6}$ and tank	$B = \frac{1}{11}$, th	en (A+B) is e	qual to			
	(a)	$\frac{\pi}{2}$	(b)	$\frac{\pi}{4}$	(c)	$\frac{3\pi}{2}$	(d)	None of these
26.	Ahor	se is tied to a p	ost by a ro	pe .If the hor	se move	s along a circu	lar path	always keeping the
	rope	tight and descr	ibes 88 m	when it has t	raced ou	t 72° at the c	entre, th	en the length of the
	rope	is						
	(a)	72 m	(b)		(c)	85 m	(d)	80 m
27.		5, y = 3 and z =						
	(a)	0	(b)	10	(c)	25	(d)	125
28.	The	value of $\frac{2.48 \times 2}{2}$	2.48 – 1.52 0.96	2×1.52 is				
	(a)	4	(b)	16	(c)	0.96	(d)	None of these
29.	lf b =	4, c = 9, then the	ne value o	f $\sqrt{bc} + \sqrt{b} + $	5 is			
	(a)	11	(b)	13	(c)	17	(d)	19
30.	If the	e volume of a ću	ibe is 729	cm ³ , then the	e length o	f its diagonal	is	
ì	(a)	9√3	(b)	6√3	(c)	8√3	(d)	° 7√3

	(a)	65 24	(b)	$\frac{4}{3}$	(c)	24 65	(d)	None of t	hese
40.	Find	the value of $\frac{1}{3}$	(cos² 30° –	$\sin^2 45^\circ + 2$	(sin⁴ 60°	- sec⁴ 45°) -	$+\frac{2}{3}$ tan ² 60 [°]	o	
	(a)	7 cm	(b)	14 cm	(c)	$7\sqrt{3}$ cm	(d)	$14\sqrt{3}$ cm	
39.	Wha	t is the length of	the longest	rod which ca	n be place	d in a cube o	f total surfa	ce area of 11	76 cm ³ '
	(a)	20 cm	(b)	22 cm	(C)	24 cm	(d)	26 cm	
	heigl	ht of milk rises	by 2 cm . H	leight of the	cone is				
38.	A co	ne of radius 5 c	m is filled v	with milk. If t	he milk is	poured into	a cylinder	of radius 10	cm, the
	(d)	70°						DEX	E
	(b) (c)	50° 60°) ^B
	(a)	40°					8	4	1
37.	82 - 87	e figure shown,			19.10		53. 64 ·	C	
	(a)	80°	(b)	s 85°	В (с)	 90°	(d)	95°	
					85°				
				P	A	_Q	5		
36.		the value of \angle						A · A - C	-0
	(a)	$x^2 - 6x + 1 = 0$						$v^{2} + v - f$	S = 0
35	Sum	of roots is -1 a	and sum of	their recipro	$\frac{1}{2}$	the equation	nis		
	(a)	Rs.89	(b)	Rs.91	(c)	Rs.97	(d)	Rs.98	
34.		total cost of 12 the cost of 1 p			S.			i pencii is i	S.5 les
24	(a)	759	(b)	779	(c)	785	(d)	795	
33.		of a three-digit							<u>ع</u>
	shac (a)	dow, when the S 3 m	Sun's eleva (b)	tion is 60°? 4 m	(c)	5 m	(d)	6 m	
32.	The	shadow of a to		04	ne Sun's e		30°.What	is the lengt	h of th
	(a)	40 65	(b)	49	(c)	45 54	(d)	49	
51.	If co	$t\theta = \frac{7}{8}$, then th	e value of	$\frac{(1+\cos\theta)(1+\cos\theta)}{(1+\cos\theta)(1+\cos\theta)}$	$1 - \cos \theta$	is			

41. If $\cos \theta - \sin \theta = \sqrt{2} \sin \theta$, then what is the value of $\cos \theta + \sin \theta$? cosecθ $\sqrt{2}\cos\frac{\theta}{2}$ (b) (a) (c) (d) sinθ cosθ 42. The formula for mean is $\overline{x} = a + \frac{\sum fd}{N}$ (b) $\overline{x} = a + \frac{\sum f}{dN}$ (c) $\overline{x} = a - \frac{\sum fd}{N}$ (d) (a) None of these 43. The mean weekly pay for ten persons equals to Rs.100, if one of the persons gets a hike of Rs.10 per week, what is the new mean weekly pay? Rs. 101 Rs. 200 (d) Rs. 250 (a) Rs. 99 (b) (c) 44. Probability that a number selected from 1, 2, 3, 4, ..., 35 is a prime number, is (b) 12/35 (c) 9/35 (d) 11/35 (a) 13/35 45. What is the probability of selecting a consonant from a set of 26 alphabets? 5/26 21/26 (b) 20/26 (C) 11/13 (d) (a) 46. If 24 clerks can clear 180 files in 15 days, then the number of clerks required to clear 240 files in 12 days, is (8) 38 (b) 40 (c) 42 (d) 44 47. The ratio of angles of a triangle is as 2:3:4. The angles of triangle are respectively, 30°,60°,90° 40°,60°,80° (c) 30°,85°,85° (d) 30°.95°.95° (b) (a) 48. In the adjoining figure, ABCD is a trapezium in which AB||DC. If $\angle A = 55^{\circ}$ and $\angle B = 70^{\circ}$, then the value of $\angle C$ and $\angle D$ is 55° 70° 90° and 120° (c) 110° and 125° (d) 115° and 120° 75° and 85° (b) (a) 49. A 4 cm cube is cut into 1 cm cubes. What is the ratio of surface area of small cubes to that of the large cube? (c) 1:4 (d) 2:3 (b) 4:3 (a) 4:1 50. If the probability of winning a game is $\frac{9}{11}$, then what is the probability of it's losing? 2 9 $\frac{7}{11}$ 7 9 (d) (b) (c) (a)

				SOCIA	L SCIE	NCE			
51.	What	at power did the R	owlatt A	ct give to the	e governr	ment?			
	(a)	To repress political	activitie	S	(b)	To impris	on people wit	hout tria	
	(c) t	o tighten their cont	trol over	indians	(d)	all of thes	se		
52.		vhich year Mahatma rict of Gujarat ?	a Gandl	ni organised	a satyaga	arh to suppo	rt the peasant	s of the	e Kheda
	(a)	1917	(b)	1916	(c)	1914	(d)	1915	- 10 - 10
53.	A pl	edge for the attain	ment of	complete ind	depender	nce was decl	ared on		
	(a)	January 26,1930			(b)	January 2	26,1929		
	(c)	January 26,1931			(d)	August 1	5,1947		
54.	Gar	ndhiji called off the	Non-co	operation Mo	ovement o	due to			
	(a)	Jallianwala Bagh	inciden	t	(b)	Tribal agi	tation		
	(c)	Chauri Chaura in	cident		(d)	All of the	se		
55.	Who	o wrote ⁽ Vande Mat	taram' ?						
	(a)	Bankim Chandra	Chattop	badhyay	(b)	Rabindra	nath Tagore		
	(c)	Abanindranath Ta	agore		(d)	Ravi Varr	na		
56.	Stud	dies on political an	d social	inequalities	in demod	cracy show t	hat		
	(a)	democracy and o	develop	ment go toge	ether				
	(b)	inequalities exist	in demo	ocracies					
	(c)	inequalities do no	ot exist u	under dictato	rship		6		
	(d)	dictatorship is bet	tter thar	democracy					
57.	Wha	ay type of challenge	e is face	ed by a non-o	democrat	ic country fo	r democratic s	set up ?	· ·
	(a)	Foundational Cha	allenge		(b)	Challenge	e of deepening	g	
	(c)	Challenge of expa	ansion		(d)	Challege	of money pov	ver	
58.	Whi	ch is the most visib	ole instit	ution of dem	ocracy ?				
	(a)	Elections			(b)	Adult Fra	nchise		
3	(c)	Political parties			(d)	Seats res	ervation	-	
59.	The	government in wh means to examine			right to k	now the dee		ave the	right and
	(a)	dictatorship			(b)	accountal	ole governme	nt	
	(c)	responsive gover	nment		(d)	legitimate	governmate		
60.	Apo	litical party is com	oosed o	f				10	
	(a)	leaders			(b)	active me	embers		
	(c)	followers			(d)	all of thes	e		1. A
61.		ch of the following	is a cha	racteristic of	1				
	(a)	Large area			(b)	Single cro			
	(c)	Capital intensive			(d)	All of thes			
62.		ch have a high leve	of pro	tein	(0)				
02.					derene	(a)	Worogoo (d)	All of the	2005
	(a)	Pulses	(b)	Staple foo	u crops	(c) Be	everages (d)	All of th	lese

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63.	Iron	and steel industry is classified	as a	136	10.31			
	(a)	Light industry		(b)	Cottage indu	ustry		
	(c)	Basic industry		(d)	Agro-based	industry	/	
64.	Wh	ich of the following industries ca	ause wate	r polluti	and the second second		Contraction of the	
	(a)	Paper (b) Ta	nneries	(c)	Chemical	(d)	All of these	
65.	BAL	CO is associated with which of	the follow	ving ?				
	(a)	Aluminium smelting	(b)	Cem	ent industry			
	(c)	Fertilizer industry	(d)	Cher	nical industry			
66.	Whi the	ich one of the following is a ma banks ?	jor reasor	n that pr	events the po	or from	getting loans from	
	(a)	Lack of capital	(b)	High	rate of interest			
	(c)	Absence of collateral	(d)	Abse	nce of mediato	ors		
67.	Whi	ich one of the following does n	ot come u	nder ter	ms of credit ?			
	(a)	Interest rate	(b)	Empl	oyment			
	(c)	Collateral	(d)	Mode	of repayment			
68.	Whe	en was the Consumer protectio	n Act ame	ended ?				
	(a)	In 1990 and 1992	(b)	In 19	92 and 1995			
	(c)	In 1989 and 1991	(d)	In 19	91 and 1993			
69.	Whi	ch organisation provides redres	ssal to cor	sumer	grievances ?			
	(a)	Consumer Protection Council	(b)	Cons	umer Protectio	n Act		
	(c)	AGMARK	(d)	ISI				
70.	Whi	ch one of the following is not gi	ven on the	e packin	g of commodit	ies?		
	(a)	Price	(b)	Batch	n number			
	(c)	Expiry date	(d)	Name	e of the Manufa	acturer		

ENGLISH

Directions:(Q. Nos. 71-76) Read the following passage carefully and answer the questions that follow it. Certain words/expressions are given in **bold** in the passage to help you locate them while answering some of the questions.

"My God' it speaks" uttered the Emperor of Brazil and the receiver of the Telephone slipped from his hand and banged aground. At the other end Alexander Graham Bell was still on line.

This incident goes back to 1876 when at an exhibition in Philadelphia (USA), Alexander Graham Bell was giving a demonstration of his invention. This strange instrument known as Telephone was to **revolutionize** life in the years to come.

Bell was born at Edinborough, Scotland. He was a teacher and , was **dedicated** to the noble cause of teaching the deaf and dumb. Due to a severe illness, Bell was sent to Canada in 1870, where too he got engaged in helping the dumb-deaf to hear and speak. Thereafter, he shifted to the USA but **continued** with his work by opening a school for deaf and dumb.

Bell was fond of scientific inventions and was ever engaged in making some machines in his spare time. While at Boston he tried to communicate through metal wire. His companion in this work was Watson. One day while experimenting with his instrument, Bell spoke to Watson, standing at a distance taken by a **pleasant** surprise as he had heard Bell clearly through his instrument. The instrument was a success and Bell patented it. Graham Bell had some sterling qualities of head and heart. Apart from being an artist, he was a kind human being, ready to help the needy. He established an institution for the deaf and dumb children. He died in 1922 in Canada. The entire northern America paid him a tribute by hanging up their telephones for a while during his funeral.

71.	The teaching activity uncertain by Bell was co	nsidere	ed 'noble' particularly	/ because
	(a) he was teaching the physically under privil	eged p	ersons	
	(b) there was nobody else in the field of edu	cation		
	(c) he was not accepting any salary for that jo	b		
	(d) he was a very famous scientist of his time	1		
72.	The words uttered by the Emperor of Brazil se	uggest	that he was extreme	ely
	(a) angry (b) insulated (c)	surpri	sed (d)	agitated
73.	What according to the passage was the cont	ributior	of invention of telep	phone ?
	(a) Interaction between two persons at some	distand	ce was possible	
	(b) Rich people were able to communicate with	th othe	S	
	(c) Graham Bell could converse with Watson r	egardir	ig invention through	telephone
	(d) It revolutionised human life			
74.	Which of the following is not mentioned in the	passa	ge as a quality of G	aham Bell ?
	(a) Lover of art	(b)	Kind natured perso	n
	(c) Cooperative individual	(d)	All of these	
5.	Which of the following made Bell to invent tele	ephone	?	
	(a) His activity of teaching	(b)	His service to the	deaf and dumb
	(c) His keen interest in scientific Invention	(d)	The request from	Emperor of Brazil
76.	Graham Bell made the telephone call of his in	ventior	to the Emperor fro	om the city of
	(a) Edinborough (b) Philadelphia		(c) Brazil	(d) Boston
Dire	ections.(Q. Nos.77-78): Choose the word or g	roup o	f words which is mo	st nearly the same i
	meaning as the word printed in bold.			
7	Revolutionize			1
	(a) Affect adversely	(b)	Develop gradually	and the second second
				S- New Co
10	(c) Illuminate completely	(d)	Change drasticall	y
8.	Dedicated			
	(a) Appointed (b) Deployed		(c) Devoted	(d) Religious
Dire	ections.(Q.Nos.79-80): Choose the word which	is oppo	site in meaning as th	e word printed in bol d
79.	Continued			
	(a) Irregular (b) Destroyed	(c)	Reckoned (d)	Suspended
30.	Pleasant			
	(a) Admirable (b) Disgusting	(c)	Indecent (d)	Unexpected

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Directions.(Q.Nos.81-90): In the following passage there are blanks, each of which has been numbered. These numbers are printed after the passage and against each, four words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

The Indian Meterological Department has sought permission to <u>81</u> a Doppler Matter radar system used for long range weather forecasting. The Government <u>82</u> equipment in the wake of 26/7 and <u>83</u> to find a suitable location has been on <u>84</u> then. The key factor is that the radar's antenna is to be installed in an <u>85</u> area of a few square kilometers far from high rises, <u>86</u> at an altitude. The radar would also need to be <u>87</u> near the coast as it would be used to <u>88</u> high intensity storms or cyclones. MHCC has hinted it is willing to <u>89</u> clearance for the Colaba site, but only after <u>90</u> the location.

81.	(a) detach	(b) install	(c) Launch	(d) fix
82.	(a) granted	(b) realized	(c) obtained	(d) seen
83.	(a) try	(b) project	(c) commission	(d) work
84.	(a) since	(b) until	(c) already	(d) at
85.	(a) inseparable	(b) encumbered	(c) unenembered	(d) occupied
86.	(a) hopelessly	(b) haping	(c) enacting	(d) preferably
87.	(a) erected	(b) located	(c) stalled	(d) tied
88.	(a) deduct	(b) examine	(c) feel	(d) detect
89.	(a) advocate	(b) launch	(c) pass	(d) grant
90.	(a) examining	(b) study	(c) scanning	(d) combing

Directions.(Q.Nos.91-93): In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

91.	Felicitated				
1	(a) admired	(b) adored	(c) encouraged	(d) congratulated	
92.	Honour				-
	(a) determination (b) courage		(c) respect	(d) discipline	
93.	Rectify				
	(a) clarify	(b) condone	(c) correct	(d) regularise	

Directions.(Q.Nos.94-96) : In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is the answer. If you find the sentence to be without any error, your should opt for the option-No error.

94.	The kitchen	need	painting	badly	and I	must	get it done	
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(a) need painting badly(b) the kitchen(c) and I must get it done(d) No error

95.	If I will play my best I can win any day against anybody							
	(a) against anybody			(b)	I can win any	day	х. -	
	(c) If I will play my bes	st		(d)	No error	•		
96.	He finds fault at every	thing I do.						
	(a) He finds fault			(b) at everything				
	(c) I do			(d) No error				
Dire	ections(Q.Nos.97-100, one which can be sub					ving questions, choo	se the	
97.	An apartment building in which each apartment is owned separately by the people living in it, but also containing shared areas.							
	(a) Condominium	(b) Multiple	ex	(c) Du	plex	(d) Apartplex		
98.	Operation of the body after death.							
	(a) Postmortem	(b) Obitua	ry	(c) Ho	mage	(d) Mortuary		
99.	A political leader who tries to get support by making false claims and promises and using arguments based on emotion rather than reason.							
	(a) Dictator	(b) Tyrant		(c) Po	pularist	(d) Demagogue		
100	. Fear of being in close	d or small spa	aces.					

(a) Closophobia

(b) Clusterophobia (c) Claustrophobia

(d) Liftophobia