MODEL TEST PAPER

GLA University, Mathura

[MCA / MCA (Lateral Entry)]

Q.1.	Which of the following is the same as Flood, Fire, Cyclone?	\ /	East West	
	(a) Damage(b) Earthquake(c) Rain(d) Accident	nati	he following words are arranged in a ural sequence which word would be first.	
Q.2.	18, 40, 70, 108, 154, (a) 200 (b) 198 (c) 208	(b) (c)	Night Negative Neighbour Near	
Q.3.	(d) 200 Dancer is related to Stage in the same way	nun woi	n office having 55 employees men out onber the women by 15. How many men are working in that office.	
	as Minister is related to (a) Pulpit (b) Assembly (c) Parliament (d) State	(b) (c)	30 20 40 50	
Q.4.	In each of the following questions four words are given, out of which one is different. Choose out the odd one. (a) Arrow	wo SG wo	a certain code language, if the rd REJECTION is coded as MIHZPWW, then how is the rd MECHANIC coded in that guage?	8
	(a) Allow (b) Axe (c) Knife (d) Dagger	$\begin{array}{c} (a) \\ (b) \\ (c) \end{array}$	NGFLFTPK NGPLFTPK NGFKFTPK NGPTPKIL	
Q.5.	An oasis always has (a) travelers (b) water	A's	nd B are brothers. C and D are sisters. son is D's brother. How is B related	
	(c) sand (d) camels	to C (a) (b)	Father Brother	
Q.6.	A bulb always has (a) filament (b) light (c) glass		Grandfather Uncle each of the following questions four	
0.7	(d) current Arun said "this girl is the wife of the	wor diff	rds are given, out of which one is ferent. Choose out the odd one. Kiwi	
Q.7.	grandson of my mother". Who is the Arun to the girl? (a) father	(b) (c) (d)	Eagle Emu Penguin	
	(a) father(b) grandfather(c) husband(d) father - in - law	Q.14.Cho Eye	cose the correct alternatives- e: Myopia : : Teeth : ?	
Q.8.	A clock is so placed that at 12 noon its minute hand towards north east. In which directions does its hour hand point at 1.30 pm?	(a) (b) (c) (d)	pyorrhoea cataract trachoma eczema	
	(A) North (b) South		oose the correct alternatives- ulptor: statue:: Poet:?	

(a) canvas (b) pen		(c) Moon(d) Star	
(c) verse (d) chisel		Q.23. Brain is related to Cranium in the same way as Pearl is related to	
Q.16. which of the following is the same a Ode, Ballad, Lyric,?	S	(a) Sand	
(a) Prose		(b) Oyster	
(b) Epic		(c) Box	
(c) Sonnet(d) Precis		(d) Shore	Ц
		Q.24. How many times in 24 hours the hour	
Q.17. In each of the given questions four Group	p	hand and minute hand of a clock are at	
of letters are given. Choose the odd one. (a) GHC		right angle? (a) 44	
(a) GHC (b) OPQ		(a) 44 (b) 24	
(c) MNW		(c) 12	П
(d) ILT		(d) 48	
Q.18. A jail always has		Q.25. Kilogram is related to Quintal in the	
(a) bars (b) jailor	8	same way as Paisa related to	
(c) lawyers		(A) Rupee	П
(d) locks		(B) Wealth	
		(C) Money	
Q.19.If '+' means '/', '/' means '-', '-' means 'x' and 'x' means '+' then		(D) Coin	
			_
$48 + 16 / 4 - 2 \times 8 = 9$		0.26 Choose the appropriate Autonom of	f
$48 + 16 / 4 - 2 \times 8 = ?$	7610	Q.26. Choose the appropriate Antonym of	f
48 + 16 / 4 - 2 x 8 = ? (a) 3 (b) 6		'Anger'	f
(a) 3		(A) party	f
(a) 3 (b) 6		'Anger' (A) party (b) happiness	f
(a) 3 (b) 6 (c) -28 (d) 112		'Anger' (A) party (b) happiness	f
(a) 3 (b) 6 (c) -28 (d) 112 Q.20. Pointing to a lady, a man said, the son of	 f	'Anger' (A) party (b) happiness (c) approval (d) love	f
(a) 3 (b) 6 (c) -28 (d) 112	 f	'Anger' (A) party (b) happiness (c) approval (d) love Q.27. Choose the appropriate Antonym of	f
(a) 3 (b) 6 (c) -28 (d) 112 Q.20.Pointing to a lady, a man said, the son of her only brother of my wife. How is the	 f	'Anger' (A) party (b) happiness (c) approval (d) love Q.27. Choose the appropriate Antonym of 'Dull'	f
(a) 3 (b) 6 (c) -28 (d) 112 Q.20. Pointing to a lady, a man said, the son of her only brother of my wife. How is the lady related to the man? (a) mother's sister (b) grandmother	f e	'Anger' (A) party (b) happiness (c) approval (d) love Q.27. Choose the appropriate Antonym of 'Dull' (a) pale	f oo oo
(a) 3 (b) 6 (c) -28 (d) 112 Q.20. Pointing to a lady, a man said, the son of her only brother of my wife. How is the lady related to the man? (a) mother's sister (b) grandmother (c) mother in law	of e	'Anger' (A) party (b) happiness (c) approval (d) love Q.27. Choose the appropriate Antonym of 'Dull' (a) pale (b) wise	f
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(a) 3 (b) 6 (c) -28 (d) 112 Q.20.Pointing to a lady, a man said, the son of her only brother of my wife. How is the lady related to the man? (a) mother's sister (b) grandmother (c) mother in law (d) sister of father in law Q.21.Fill in the blank: 2, 8, 22, 44, 74, (a) 96 (b) 98		'Anger' (A) party (b) happiness (c) approval (d) love Q.27. Choose the appropriate Antonym of 'Dull' (a) pale (b) wise (c) shining (d) colourful Q.28. Choose the appropriate Synonym of 'ABATE' (a) fish	
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(a) 3 (b) 6 (c) -28 (d) 112 Q.20. Pointing to a lady, a man said, the son of her only brother of my wife. How is the lady related to the man? (a) mother's sister (b) grandmother (c) mother in law (d) sister of father in law Q.21. Fill in the blank: 2, 8, 22, 44, 74, (a) 96 (b) 98 (c) 112 (d) 100 Q.22. In the following question four words are given, out of which one is different.		(A) party (b) happiness (c) approval (d) love Q.27. Choose the appropriate Antonym of 'Dull' (a) pale (b) wise (c) shining (d) colourful Q.28. Choose the appropriate Synonym of 'ABATE' (a) fish (b) catch (c) diminish (d) embarrass Q.29. Choose the appropriate Synonym of	

(c) replace(d) squander	(c) campaign : advance(d) stand : death	
Q.30. Complete the sentence: Since he is a teacher of English, we would not expect him to be guilty of a (a) solecism (b) schism (c) stanchion (d) freshet Q.31. Complete the sentence:	Q.35. <i>Direction:</i> Choose from the four alternatives the words which best complete the sentence: On seeing the lion she felt too much afraid. (a) very much (b) excessively (c) much (d) No improvement	
The researcher in the field of was interested in race improvement. (a) euthenics (b) euthanasia (c) euphuism (d) euphonics Q.32. Direction: Choose from the four	Q.36. A man can make 4 cardboard boxes in 1 hr. 10 min. How many cardboard boxes can he make in 7 hours? (A) 22 (b) 20 (c) 18 (d) 24	
alternatives the words which best complete the sentence— The building was so full of that the firemen could not get inside. (a) some smoke (b) the smoke (c) a smoke (d) smoke	Q.37. The length of a rectangle is 1 cm more than its breadth. The diagonal is 29 cm. find the area of the rectangle. (a) 481 cm square (b) 841 cm square (c) 420 cm square (d) 870 cm square	
Q.33. Direction: Each of the following questions consist of a related pair of capitalized words, followed by five alternate pairs of words. Select the alternative pair that best expresses a relationship similar to that expressed in the pair of capitalized words. FRUIT: ORCHARD:: (a) free: forest (b) fish: sea (c) lumber: mill (d) seed: flower	Q.38. If the annual increase in the population be 20% and the present population be 10,000. what will be the population after 3 years hence (a) 16000 (b) 17280 (c) 14400 (d) 1728 Q.39. IN how many ways can the letters of the word RAINBOW be arranged so that only two vowels always remain together?	
Q.34. <i>Direction:</i> Each of the following questions consist of a related pair of capitalized words, followed by five alternate pairs of words. Select the alternative pair that best expresses a relationship similar to that expressed in the pair of capitalized words. RETREAT: DEFEAT:: (a) retrench: depression (b) victory: charge	(a) 2880 (b) 1440 (c) 3200 (d) None of these Q.40. A person purchases 150, Rs. 100 shares at a discount of 20%. If the company pays a dividend of 12% find his rate of return. (a) 20% (b) 15% (c) 12% (d) 25%	

7	in build one and a half walls in		Q.48. The number of real solutions of the	
_	en 8 men can build how many	7	equation $\log 0.5 x = x $ is	_
walls in 8 d	ays?		(a) 1	님
(a) 84			(b) 2	
(b) 96			(c) 0	
(c) 64			(d) None of these	
(d) None	of these			
			Q.49. The number of integral solutions of	
Q.42. A certain	sum triples in 8 years under	r	$[(x+2)/(x^2+1)] > 1/2$ is	
	interest which is calculated		(a) 4	
	In how many years does the		(b) 3	
	nes 9 times itself?		(c) 5	
(a) 24			(d) None of these	
(b) 32				
(c) 16			Q.50. If $\cos^4 x + \sin^2 x - p = 0$, $p \in R$ has	
(d) 8			real solutions then	
In14			(a) $p \leq 1$	
	oportion water be mixed with		(b) $3/4 \le p \le 1$	
spirit to ga	nin 12.5% by selling it at cost		(c) $p \ge 3/4$	
price?			(d) None of these	
(a) 3:5				
(b) 1:8			Q.51. In a triangle ABC, tan 3A – tan 2A – tan A	
(c) 2:7			is equal to	
(d) 1:9			(a) – tan 3A tan 2A tan A	
O 44 Find the m	umber of terms in		(b) tan A tan 2A tan 3A	
$7 \times a + b \div$			(c) tanAtan2A-tan2Atan3A-tan3AtanA	
(a) 3			(d) None of these	
(b) 4			2010	
(c) 5			Q.52. $(\sin \theta + i \cos \theta)^4$ is equal to	
(d) 6			(a) $\cos 4\theta - i \sin 4\theta$	
			(b) $\sin 4\theta + i \cos 4\theta$	
Q.45. How many	6 digits number can be formed	1	(c) $\sin 4\theta - i \cos 4\theta$	
using the d	igit 2 two times and the digit 4	1	(d) $\cos 4\theta + i \sin 4\theta$	
four times?				
(a) 16			Q.53. The domain of sin ⁻¹ x is	
(b) 15			(a) [-1, 1]	
(c) 18			(b) $(-\pi,\pi)$	
(d) 24			(c) $(0, 2\pi)$	
0.46			$(d) (-\infty, \infty)$	
	all odd proper divisors of 360 is			
(a) 77			Q.54. The straight roads intersect at an angle of	
(b) 78			60°. A bus on one road is 2 km. away from	
(c) 81			the intersection and a car on the other	
(d) None	of these		road is 3 km. away from the intersection.	
			Then the direct distance between the two	
	umber of seven-digit numbers	,	vehicles is	
	ose digits is even, is		(a) 1 km.	
(a) 9×10			(b) $\sqrt{2}$ km.	
(b) 9 x 10) ⁵		(c) 4 km.	
(c) 45 x 1	05		(d) $\sqrt{7}$ km.	
(d) 81 x 1	0^5			
` ′			Q.55. The cube roots of unity lie on a circle	
			(a) $ z = 1$	
			(b) $ z-1 = 1$	

(c) $ z+1 = 1$ (d) $ z-w = 1$		Q.62. — sin 17°	
 Q.56.10 students took a test and each one got different score. In how many ways can three different prizes be given? (a) 270 (b) 360 (c) 720 (d) None of these 		cos 73° (a) 1/2 (b) 1 (c) $2/\sqrt{7}$ (d) None of the above Q.63. (a) 16	
Q.57. The straight roads intersect at an angle of 60°. A bus on one road is 2 km away from the intersection and a car on the other road is 3 km away from the intersection. Then the direct distance between the two vehicles is:- (a) $\sqrt{2}$ km (b) 1 km (c) $\sqrt{7}$ km (d) 4 km		(b) 32 (c) 64 (d) None of these Q.64. From a bag containing 5 red different pairs and 4 white different pairs of socks. Probability of getting a pair by drawing 2 socks is given by (a) 9/20 (b) 1/17 (c) 1/20	
Q.58. The value of sin 50° sin 70° + sin 10° (A) 1 (B) 0 (C) 1/2 (D) 2	0000	Q.65. If three cubical dice are thrown, the probability that they show the numbers in A.P. is (a) 1/36 (b) 1/6	
Q.59. As observed from the top of a 75m high light house from the sea-level, the angle of depression is 60°. Find the distance of the ship from the base of light house. (a) 25 m (b) 25√3 m (c) 5√3 m (d) None of the above The shadow of a pole standing on the Q.60.level ground is 15 metres when sun's		(c) 1/12 (d) 1/18 Q.66. The probability that a man will live 10 more years is ½ and the probability that his wife will live 10 more years is 1/3. Then the probability that neither will be alive in 10 years is	
altitude is 30°. Find the height of the pole. (a) 25 m (b) $25\sqrt{3} \text{ m}$ (c) $5\sqrt{3} \text{ m}$ (d) None of the above Q.61. $5 \sin^2 30^\circ + \cos^2 45^\circ + 4 \tan^2 60^\circ$		(b) 1/2 (c) 7/12 (d) 11/12 Q.67. A train is moving with constant velocity. If the resistance to its motion is 10 lbs wt per ton (of mass) and the force exerted by	
2 sin 30° cos 45° + tan 45° (a) $55/6$ (b) $45\sqrt{3}$ (c) 55 (d) None of the above		the engine is 200 lbs wt, the mass of the engine is (a) 20 tons (b) 200 tons (c) 2000 tons (d) 2 tons. Q.68. A man falls vertically under gravity with a box of mass m on his head. Then the	

reaction force between his head and the box is (a) 1 mg (b) 2 mg (c) 0 (d) 1.5 mg Q.69. The maximum range for a given particle is possible only when the angle of projection is (a) 0 (b) 30 (c) 45 (d) 60	Q.75. If OP makes 4 revolutions in one second, the angular velocity in radians per second is (a) π (b) 2π (c) 4π (d) 8π
Q.70. If $x = \sin t$, $y = \cos t$, then dy/dx is equal to (a) $\tan t$ (b) $\cot t$ (c) $\tan t$ (d) $\cot t$.	
Q.71. Differential Coefficient of sec $\tan^{1} x$ is (a) $x/(1+x^{2})$ (b) $x(1+x^{2})$ (c) $1/(1+x^{2})$ (d) $x/(1+x^{2})$	VIVERSITY
Q.72. If $x = 3 \cos \theta + 2 \cos^3 \theta$, $y = 3 \sin \theta + 2$ (a) $\cos \theta$ (b) $\tan \theta$ (c) $\sec \theta$ (d) None of these	TTD, 2010
Q.73. An arc of a circle of radius 7 cm. subtends an angle of 30 at the centre, then the length of this arc is (a) 11 cm. (b) 11/3 cm. (c) 11/2 cm. (d) 22 cm.	HOTEL HIGH
Q.74. A circular wire of radius 3 cm. is cut and bent so as to lie along the circumference of a hoop whose radius is 48 cm. The angle in degrees which is subtended at the centre of the hoop is (a) 15° (b) 22.5° (c) 30° (d) 45°	