PPSC Lecturer Mathematics Solved Past Paper-2011 On doc4shares.com

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PPSC Lecturer Mathematics Solved Past Paper-2011

PUNJAB PUBLIC SERVICE COMMISSION WRITTEN TEST FOR THE POST OF LECTURER IN MATHEMATICS 2011

Maria Company			2011		
	Allowed: Two Hou	rs .		Maximum Marks: 100	
1.		lean Ring if, for all $x \in$		¥2	
	(A) $x^2 = x$	(B) $x^2 = -x$	(C) $x^2 = 0$	(D) $x^2 = 1$	
2.	The group of Qua	d	the state of the state of		
	(A) 6	(B) 8	(C) 10	(D) 4	
3.		rime order is		For more Papers&Books visit	
	(A) an abelian b	ut not cyclic	(B) an abelian grou (D) a Cyclic group	phttp://doc4shares.com/	
102	(C) a non-abelia	n group	(D) a Cyclic group		
4.	Any two conjugat	e subgroups of a grou	p G are		
	(A) Equivalent	(B) Similar	(C) Isomorphic then H is a normal subgr	(D) None of these	
5.	If H is a subgroup	o of index	then H is a normal subgr	oup of G.	
	(A) 2	(B) 4	(C) Prime number	(D) None of these	
6.	nZ is a maximal i	deal of a ring Z if and	only if n is		
	(A) Prime numb	er	(B) Composite num	ber	
	(C) Natural num	ber *	(B) Composite num(D) None of these		
7.	Let G be a cyclic	group of order 24 gen	erated by a then order of	a ¹⁰ is	
	(A) 2	(B) 12	(C) 10	(D) None of these	
8.	vec	V has a basis of n	vectors, then every basis	of V must consist of exactly	
	(A) n+1	(B) n	(C) n-1	(D) None of these	
9.	An indexed set	of vectors (v_1 , v_2 , v_n $x_p v_p = 0$ has only the t) in R ⁿ is said to be	(D) None of these if the vector equation	
	(C) Linearly fluid	ependent endent	(D) None of these		
10.	The set C _n of all	nth roots of unity for a	fixed positive integer n is	a group under	
	(A) addition		(B) addition modulo	950-1	
	(C) multiplication		(D) multiplication m		
11.			subgroups of a group G _		
25,000	(AY is normal su	baroup	(B) may not be non	mal subgroup	
	(C) is cyclic subgroup		(D) is abelian subo	(B) may not be normal subgroup (D) is abelian subgroup	
12.	Z / 2Z is a quotie	nt group of order	,,,	- Cap	
	(A) 1		(C) infinite	(D) None of these	
13			here p is prime is always a	abelian.	
	(A) p4	(BY p2	(C) 2p	(D) p ³	
14.			mmetric group of degree	3 is_	
	(A) 6	(B) 2	(C) 3	(D) 4	
15.				nich commutes with all other	
	elements of G.			mur dir duror	

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16.		sam of G livisors in the Ring of int	(D) None of thes	90 -1	
		(B) 0,2,3	(C) 0.2.4	(DY 234	
17.	If H is a normal	(B) $\overline{0}, \overline{2}, \overline{3}$ subgroup of G, then Na	(H) =	(-) -,0,1	
	(A) H	(B) G with <i>n</i> distinct eigenvalu	(C) {e}	(D) None of the	990
18.	An n x n matrix	with n distinct eigenvalu	es is	(2) 110110 01 010	30
	(A) Diagonaliza	ble alizable	(B) Similar Matri	x -	
	(C) Not diagona	alizable	(D) None of thes	e	
19.	space V(F) then	e a linear transformatio			to a vector
	(A) dim N(T) + 0	dim R(T) = 0 dim (R(T) = n ²	(B) $\dim (N(T) + I$	R(T) = 2n	
	(C) dim N(T) + 0	$\dim (R(T) = n^2$	(D) dim (N(T) + c	dim R(T) = n	
20.	matirx.	of the fow space of coll	imn space of a matrix	is called the	
	(A) Basis	(B) Null Space	(C) Rank	(D) None of the	se
21.	ax(bxc) is a ve	ector lying in the plane of	containing vectors		
	(A) a, b and c	(B) <u>a</u> and <u>c</u> ix A and its transpose h	(C) <u>b</u> and <u>c</u>	(D) <u>b</u> and <u>a</u>	1277
22.	The square mati	rix A and its transpose h	ave thee	igenvalues.	
	/AV Same	(R) Different	/O1	(D) None of the	se
23.	The set S= \ \ \ \ \ \ 2	$\begin{bmatrix} 2 \\ 3 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \end{bmatrix}$ of vectors in	n R ² is		
	(A) Linearly Ind	ependent	(BY Linearly depe	endent	
	(C) Basis of R2		(D) None of these	9	
24.	Let X and Y be	vectors spaces over th	e field F with dim $X =$	m and dim $Y = n$ the	en the dim
	(A) mn	(B) n	(C) n ^m	(D) m ²	
25.	All subgroups of	(B) n an abelian group are _	subgroups.	3.05	
	(A) cyclic	(B) normal	(C) characteristic	(D) None of thes	e
26.	The set of all so	plutions to the homoger	neous equation Ax = (when A is an m x n	matrix is
	(A) Null space	(B) Column space		(D) None of thes	
27.	least 1 of them v		eck of 52 playing cards	annecomment neo-dage whose	lity that at
28.	(A) 0.4773 Let G be an abe	(B) 0.4774 lian group. Then which o	(C) 0.4775 one of the following is n	(D) 0.4776 oot true.	
151		nutator of G is identity	00000000000000000000000000000000000000		
	(C) center of G		st have subgroup of or	der m	3. * 2
		oup of G is cyclic	14		
29.	Every group of o	rder ≤ 5 is			N:

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30.		Number of non-isomorphic groups of order 8	Lis	(D) 5				
	,	(A) 4 (B) 2	(C) 3	(D) 5				
31.		Center of the group of quaternions Qs is of o	order	3505 				
		(A) 1 (B) 2	(C) 8	(D) 4				
32.		<u>e</u> •(<u>b</u> x <u>c</u>) is not equal to	1-7 -	3007				
		(A) <u>a•(c x b)</u> (B) (a x b)•c	(C) b • (c x a)	(D) <u>a</u> •(<u>a</u> × <u>b</u>)				
33.		Let G be a group. Then the derived group G						
		(A) cyclic (B) abelian	(Cy normal	(D) none of these				
34.		Let G be a group. Then the factor group G/o						
		(A) abelian (B) cyclic	(C) normal	(D) none of these				
35.		Finite simple abelian groups are of order	7-7					
		(A) 4 (B) prime power	(C) power of 2	(D) prime number				
36.		Set of integers Z is	10/ 10					
		(A) Field	(B) group under m	ultiplication				
		(C) integral domain	(D) division ring					
37.		Set of integers Z is of the set Q						
0.7000		(A) prime ideal (B) subring	(C) maximal ideal	(D) none of these				
38.		Solution set of the equation $1 + \cos x = 0$ is						
		(A) $\{\pi + n\pi : n \in Z\}$	(B) {2nπ:nεZ}					
		MANA SEE BURGOOMS	300.30	_				
		(C) $\{\frac{\pi}{2} + n\pi : n \in Z\}$	(D) {π + 2 nπ : n ε	: 2)				
39.		Non-zero elements of a field form a group	under .					
38.			(C) subtraction	(D) division				
0/200		(A) addition (B) multiplication	n 0/ /3 \ = /a + h.	3 · a h s O) is a vector space				
40.		Let Q be the set of rational numbers. Then Q ($\sqrt{3}$) = {a + b $\sqrt{3}$: a, b ϵ Q} is a vector space						
		over g with dimension	(0) 3	(D) A				
		(A) 1 (B) 2	(C) 3	(D) 4				
41.		Let W be a subspace of the space R^3 . If dim $W = 0$ then W is a						
		(A) line through the origin 0	(B) plane through the origin 0					
		(C) entire space R ³ (D) a point						
42.		Let P. (A be a vector space of all polynom	ials of degree $\leq n$: I	nen				
		(A) dim $P_n(t) = n - 1$ (B) dim $P_n(t) = n$	$(C)^{r}P_{n}(t)=n+1$	(D) 2				
43.		A one to one linear transformation preserves						
40.		(A) basis but not dimension	(B) basis and dimension					
			(D) None of these					
		(C) dimension but not basis In the group (Z,°) of all integers where a °	b = a + b + 1 for a,	b ε Z, the inverse of -3 is				
44.		(C)	10.3	(0) (
		(A) -3 (B) 0 (C) 3 The set Z of all integers is not a vector space over the field R of real numbers under ordinar						
45.		The set Z of all integers is not a vector space over the lateral addition '+' multiplication 'X' of real numbers, because						
		addition + muliiplication × or real number	(B) (Z, +,x) is no	ot a field				
		(A) (Z, +) is a ring						
		(C) (R,x) is not a group (D) ordinary multiplication of real number	rs does not define a	scalar multiplication of Z by R.				
		(D) ordinary multiplication of real number	IS GOOD HOL WOMEN	The service of the court of the service of the serv				

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6.	Let G be an abeliar	group. Then $\varphi : G \mapsto$	G given by	me is an automorphism		
	(A) $\varphi(x) = x^3$	(B) $\varphi(x) = e$	(C) $\varphi(x) = x^2$	(D) $\varphi(x) = x^{-1}$		
7.		which g2 = 1 for all g				
	(A) abelian	(B) Cyclic	(C) abelian but no	ot cyclic (D) non-abelian		
8.		1 = a3, ab = ba1). The	en the number of distir	nct left cosets of H = (b) in G is		
	10 mars (C)	(T) (T) 1		0.00		
	(A) 1	(B) 2	(C) 4	(D) 3		
9.		tion T: U → V is one-t				
	(A) U	(B) V	(C) {O}	(D) lm(T)		
0.	~ /	unction $\varphi(x, y, z)$, div		200		
	(A) scalar point fu		(B) vector point for	unction		
200	(C) guage function		(D) neither	na La del di que de La companione de la Constantina de la companione de la		
1.				t time is. The velocity at $t = 0$ is		
		(B) (-1,-6, 0)				
52.	The coordinate sur	faces for the cylindric	al coordinates $x = r \cos x$	os ϑ , $y = r \sin \vartheta$, $z = z$ are given		
100	by					
107	(A) r= c, 9 = c		(B) $r = c_1, \vartheta = c_1$	z = c ₃		
	(C) r = C1, z = C3		(D) $\vartheta = c_2, z = c_3$	V.		
3.	The metric coeffici	ents in cylindrical cool	rdinates are			
	(A) (1, 1, 1)	(B) (1, 0, 1)	(C) (1, r, 1)	(D) neither		
4.	The value of the q			341		
975	(A) X _i	(B) zero	(C) x	(D) x _i x _j s (D) 1024		
5.		in a space of 4 dimen	6000 HAC 164	\$		
١٥.	(A) 5	(B) 4	(C) 625	(DY 1024		
6.	A vector is said to		(0) 525	(2)		
ю.	A VECTOI IS SAID TO	(B) ∇F=0	CYDVE-0	(D) none		
	(A) ∇F=1	(B) V F = 0	(C) VXF=0	tdive a about a diameter of		
7.	The moment of inertia of a rigid hemisphere of mass M and radius a about a diameter of a base is					
			(B) Ma ² / 2			
	(A) Ma ² / 5 (C) ✓2 Ma ² / 5		(D) more inform	nation needed		
8.	Podius of auration	of a rigid body of ma	ss 4 am having mome	ent of inertia 32 gm(cm) ² is:		
0.		of a rigid body of file	". (C) √2 cm	(D) 2√2 gm		
	(A) 8 (cm) ²	(B) 2√2 cm	. (C) √2 cm	ments and products of inertia 1		
9.	Equation for the e	Ilipsoid of inertia for a	rigid body naving mo	oments and products of inertia 1		
	= 18 units 1 _{yy} = 18	units, 1 _{zz} = 36 units,	$1_{xy} = -13.5 \text{ units}, 1_{xz} = -13.5 \text$	- U, Tyz - U.		
170	(A) 18(x ² +y ² +z ²)-		(BM 18(x²+y²+2)	Z^2) $-Z^2Xy = 1$		
(C) 18/v2+v2) + 2:		$r^2 - 27 x v = 1$	(D) more inform	nation needed		
0.	The neighborhood	of 0, under the usua	I topology for the real	line r, is		
				(D) $[0, \frac{1}{2}[$		
	$(A)^{1} = \frac{1}{2} \cdot \frac{1}{2}$	(B)]-1,0]	(C)]0,1]	(3 7)		
61.	Let A = 10. 11 be a	subset of R with Euc	lidean metric. Then in	nterior of A is		
	(A) [0,1[(B)]0,1[(C) [0,1]	(D)]0,1]		
	(v) [o'1]	re papers visit		100		

62.	Number of non-isomorphic groups of ord	er 8 is				
52000	(A) 5 . (B) 2	(C) 3 (D) 4				
63.	Suppose a and c are real numbers, c > (), and f is defined on [-1, 1] by				
	$f(x) = \begin{cases} x^{a} \sin(x^{-c}) & \text{(if } x \neq 0), \\ 0 & \text{(if } x = 0). \end{cases}$					
	$f(x) = \begin{pmatrix} x & x & y & y \\ 0 & y & y \end{pmatrix}$	2 2				
	N					
	f is bounded if and only if					
533	(A) a > 1 + c (B) a > 2 + c	(C) a≥1+c (D) a≥2+c				
64.	Let M _{2,3} be a vector space of all 2 x 3 m	atrices over R. Then dimension of $Hom(M_{2,3}, R^4)$				
	(A) 12 (B) 6	(C) 8 (D) 24				
65.	Let $X = \{a, b, c, d, e\}$. Which one of the following	lowing classes of subsets of X is a topology on X.				
	(A) $T_1 = \{X, \phi, \{a\}, \{a,b\}, \{a,c\}\}$	(B) $T_2 = \{X, \phi, \{a, b, c\}, \{a, b, d\}, \{a, b, c, d\}\}$				
	$(CYT_3 = \{X, \phi, \{a\}, \{a,b\}, \{a,c,d\}, \{a,b,c,d\}\}$	$\{D\} T_4 = \{\phi, \{a\}, \{a,b\}, \{a,c\}\}$				
66.	Let $T = \{X, \phi, \{a\}, \{a,b\}, \{a,c,d\}, \{a,b,c,d\}, \{a,b,c$	a,b,e}} be a topology on				
	$X = \{a,b,c,d,e\}$ and $A = \{a,b,c\}$ be the su					
	(A) {a,b,c} (B) {a,b}	(C) {a} (D) {b,c}				
		(0) (0)				
67.	The value of $\sin(\cos^{-1}\frac{\sqrt{3}}{2})$ is					
	F -					
	(A) $\frac{\sqrt{3}}{2}$ (B) $\frac{1}{\sqrt{2}}$	(c) $\frac{1}{2}$ (D) 1				
535	2 √2	2				
68.	The smallest field containing set of integers Z is					
	(A) Q(√2) (B) Q	(C) $Q(\sqrt{6})$ (D) $Q(\sqrt{3})$				
69.	그리를 하고 있을 때문에 가는 얼굴하다 그 그리고 그리고 있다면 하다 그리고 있는데 그리고 있다.	which of the following set is not closed.				
	(A) set of integers	(BVset of rational numbers				
	(A)	(B) set of rational numbers (D) {1, $\frac{1}{2}$, $\frac{1}{3}$,} both are correct				
	(C) [0, 1]	$(D)^{2}\{1, \frac{1}{2}, \frac{1}{2},\}$				
70.	Let R be the usual metric space and 2	be the set of integers. Then clouser of Z is				
	(A) Z					
	(C) set of real number R	(B) set of rational numbers Q				
71.	(C) set of real number R (D) set of natural numbers N A subspace A of a complete metric space X is complete if and only if A is					
Witte:	(A)X (B) open	(6)				
72.		(C) closed (D) empty set				
8.7%	A subset A of a topological space X is open if and only if A is (A) A is neighbourhood of each of its points (B) A is neighbourhood of some of its points					
	(C) A contains all of its limit points	(D) A contained if some of its points				
73.	(C) A contains all of its limit points (D) A contains all of its boundary points Non-zero elements of a finite filed form group.					
(1973)	(A) non-cyclic	10. T 10.0 M 10.1				
	(C) non-abelian	(B) an abelian group but not cyclic				
74.	Let R be the cofinite topology. Then I	(D) a cyclic				
55.55	(A) T_0 but not T_1 (B) T_1 but not					
	(b) 10 but not	T_2 (C) T_2 but not T_3 (D) T_3 but not T_1				

Let $f(x) = \frac{x+x}{x+x}$	$\frac{-5}{(x-2)}$. Then range of	f is		
(A) Set of all rea	I numbers R	(B) R − {1, 2}		f8 0
(C) R+		(D) R		-
The value of xe	y dx is			
	(B) 1	(C) c	(D) 2c	
(A) -1	the congruence $4x = 5$	(mod 9) is	(D) 20	
The solution of the	/B) v = 7/mod ((1100 0) 15 (1100 0) 15	(D) v = 2/max	4.0/
(A) X ≡ ρ(mod a)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$(C) x \equiv 8 \pmod{9}$	(D) $X = 2 \text{(mod)}$	19)
The series V-X	$\frac{x^3}{x^4} + \frac{x^3}{x^4} + \dots$ is cor	vergent for		
	•		•	40
(A) IVI < 1 only	(B) x < 1	(C) -1 < x ≤ 1	(D) all real va	alues of x
The general solu	tion of the differential	equation $(x^2 + y^2) dx - 2$	2xdy = 0 is	
The general as	= 0, where c is an art	nitrary constant	5. 6.	
(A) X2 - CX-, y	, where c is an arbitra	nry constant		77
(B) $(x-y)^2 = Cx$	c, where c is an arbi	trany constant		
(C) x+y+2xy-	c, where c is an arbi	trany constant		
(D) $y = x^2 - 2x^4$	c, where c is an arbi	= x, if x is rational and f	(x) = 1 - x if x is in	ational. The
(A) f is continue	ous on R	(B) f is continuo	us only at $x = \frac{1}{2}$	
(A) Is contained		130,500	2	A
o continu	ous everywhere exce	ot at $x = \frac{1}{x}$	E . W. COV	
(C) f is continue	ous everywhere exce	2		3 8
(D) f is disconti	nuous everywhere		¥ 0	
The differential 6	equation ydx - 2xdy =	0 represents	14,	
(A) a family of s	traight lines	(B) a family of p	arabola	
(C) a family of h	vnerholas	(D) a fairilly of G	ircles	
(C) a fairily of t	aral of the differential	equation $(D^2 + 4)y = x$ is		
A particular into			√x ×	\$
(A) xc ^{-2x}	(B) x cos 2x	(C) x sin 2x	(D) -	
	differentiation and control of the c	a) in anyol to		2 B
The area of the	cardioid $r = a(1 + \cos t)$	(a) is equal to		
		$(C)\sqrt{\frac{3\pi a^2}{a^2}}$	(D) 2πa ²	
(A) 4πa ²	(B) 8πa	4		10 107
	ain wat one wwill he	greatest when x is equa	al to	74
The value of $\sqrt{3}$	SIN X + COS X WIII DO			
(Δ) π	$(B)^{\frac{\pi}{4}}$	(C) $\frac{\pi}{6}$	(D) $\frac{\pi}{6}$	작성 작성
(A) $\frac{\pi}{2}$	(6) 4	` 6		
If a narticle in ed	milibrium is subjected	to four forces F ₁ - 2î -	$5\hat{j} + 6k, F_2 = 1 + 3$	5 j - 1 K
r a particle in et	and E. then E. is an	ial to		
F3 = 21 - 21 - 31	and F4 then F4 is equ	. /C\ 21 21_Û	(D) 3î+ĵ-	10 k
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\hat{k} (B) $5\hat{i} - 4\hat{j} - 4$	k (C) 31-2j-k	(5)	0.000
TI . C C Cl.	a = x + x - 1 is			
The function $f(x)$	and differentiable for	1.7		

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(B) Continuous but not differentiable for x = 0, x = 1

		s but differentiable for nuous nor differentiab		
87.	(to			**
88.	(A) 0 If z = x2 tan-1	(B) e	(C) e ^{1/3} .	(D) e ³
	$\left(\frac{y}{x}\right) - y^2 \tan^{-1}\left(\frac{x}{y}\right)$, then $\frac{9^2z}{9x9y}$ is		, # w
	(A) $\frac{x^2}{y^2}$	(B) $\frac{x^2 + y^2}{x^2 - y^2}$	$(C)^{2}\frac{x^{2}-y^{2}}{x^{2}+y^{2}}$	(D) None of thes
89. 90.	(C) Reciprocal of	easure of curvature	(B) Square the co (D) None of these), and f is defined on [,
30.	$f(x) = \begin{cases} x^{a} \sin(x^{-e}) \\ 0 \end{cases}$, and y is defined on t	
	f is continuous if a	nd only if		(D) a > 0
ñ ~	(A) a≥1	(B) a > 1	(C) a≥0	(D) a > 0
91.	The value of $\int_{0}^{\infty} \frac{dx}{1+x}$	is	900	
· '.	$(A)^{r}\frac{\pi}{2}$	(B) $\frac{\pi}{4}$	(C) 0	(D) ∞
92.		ng function sis a bijec		
	(A) $f(x) = x^2 + 1$	$(B) f(x) = x^3$	(C) $f(x) = \frac{(x^2 + 1)}{(x^2 + 2)}$	(D) $f(x) = x^2$
93.	$f(z) = \frac{1}{z}$ is not unifor	ormly continuous in th	e region	9
G# '.	(A) 0≤ z ≤ 1	(B) 0≤ z < 1	(C) 0< z < 1	(D) 0< z ≤ 1
94.	$f(z) = z^3 + 3i$ is (A) analytic everywh (C) analytic everywh	nere except z = 3i	(B) analytic every	where except z = 0 where
	If C is the circle z =		ual to	
	(A) 3	(B) 2	© 000	(D) 1
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-		2		#X	
96.	The series $\sum_{n=0}^{\infty} \frac{n}{(2)^n}$	i) n is			
	(A) convergent (C) divergent		(B) absolutely co		
	(C) divergent		(D) none of thes	е	
97.	The radius of cor	overgence of sinh Z is			
			(C) R = 1	(D) R = 2	
98.	Four married cor	uples have bought 8 :	seats in a concert. In h	ow many different ways can they	
	(A) 24	(B) 96	10 384	(D) none of these	
99.	A coin is biased		e as likely to occur as	a tail. If the coin is tossed 3 times	
	(A) $\frac{1}{9}$	(B) $\frac{2}{9}$	(C) $\frac{4}{9}$	(D) none of these	
100.	If X represents the outcome when a die is tossed. Then the expected value of X is				
	(A) $\frac{1}{2}$	(B) 5/2	(C) $\frac{7}{2}$	$(0)^{\frac{3}{2}}$	

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