HINDU COLLEGE :: GUNTUR

Name of the Lecturer : Dr. S.V.S. GIRIJA , Lecturer in Mathematics

Assignments 2019-20

S. No.	Student Name	Group	Roll No.	Hallticket No.	Topic of Assignment
1	**AMRUTHAPUDI PERAIAH**	**BA**	**663**	**Y171028024**	Find the equation of the plane through the point (2,-3,1) and perpendicular to the line joining the points (3,4,-1), (2,-1,5)..
2	**BELLAMKONDA LEELARAM**	**BA**	**653**	**Y171028025**	Show that the four points (0,4,3), (-1,-5,-3), (-2,-2,1), (1,1,-1) are coplanar.
3	**BONTHA SRIKANTH**	**BA**	**656**	**Y171028026**	Find the equation of the plane passing through the points (2,2,-1), (3,4,2), (7,0,6).
4	**BONTHU SUNEETHA**	**BA**		**Y171028027**	Find the image of the point (2,-1,3) in the plane 3X-2Y-9Z=0
5	**CHEERABOINA KALYAN CHAKRAVARTHI**	**BA**	**670**	**Y171028028**	Find the foot of the perpendicular from (2,-2,3) to the plane 2X-2Y-Z-9=0
6	**GOLI MADAN GOPAL**	**BA**	**660**	**Y171028029**	Prove that set of integers $\mathbb{Z}$ with respect to * defined as a*b=a+b+2, is an Abelian Group
7	**GUNJARA SURESH**	**BA**	**661**	**Y171028030**	Show that cube roots of unity w.r.t. multiplication is an abelian group.
8	**KANDUKURI SRIDHAR BABU**	**BA**	**669**	**Y171028031**	Show that fourth roots of unity w.r.t. complex multiplication is an abelian group.
9	**KASUKURTHI SANJAY BHASKAR**	**BA**	**652**	**Y171028032**	Show that the set integers {1,5,7,11} form an abelian group with reference to multiplication modulo 12
10	**KETHAVATHU HANUMAN NAIK**	**BA**	**657**	**Y171028033**	If H and K are two subgroups of a group G, then prove that HK is also a subgroup of G iff HK=KH
11	**KORRA SANKARA RAO**	**BA**	**654**	**Y171028034**	Prove that any two left (right) cosets of a subgroup are either disjoint or identical.
12	**MALLAVARAPU SANDEEP**	**BA**	**658**	**Y171028035**	If H is a subgroup of a group G then prove that there exists a one to one correspondence between any two right cosets of H in G.

$f(x) = x(x-1)(x-2)$ on $[0, 1/2]$.

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13	**MUKKOLLU SIVAIAH**	**BA**	**665**	**Y171028036**	Prove that H is a normal subgroup of a group G iff product of two right cosets of H is again a right coset of H
14	**MYLA VENKATA SIVARAMA KRISHNA**	**BA**	**664**	**Y171028037**	Define kernel of homomorphism. If f is a homomorphism of a group G into a group G, then show that the kernel of f is a normal subgroup of G.
15	**PAGADALA SAI KIRAN**	**BA**	**655**	**Y171028038**	1.state and prove Lagranges theorem 2.state and prove cayleys theorem
16	**PEDDIBOYINA SUJATHA**	**BA**	**659**	**Y171028039**	Prove that H is a normal subgroup of a group G iff product of two right cosets of H is again a right coset of H
17	**PINNIKA KATAMRAJU**	**BA**	**667**	**Y171028040**	1.state and prove Gauss divergence theorem 2.state and prove Greens theorem
18	**RAVIPUDEI SIVA SANKAR**	**BA**	**668**	**Y171028041**	1.state and prove Stokes theorem 2.show that curl(gradf)=0
19	**RAVURI PAVAN KALYAN**	**BA**	**662**	**Y171028042**	1.state and prove Lagranges theorem 2.state and prove cayleys theorem
20	**SHAIK JOHNSAIDA**	**BA**	**672**	**Y171028043**	1.state and prove fundamental theorem of homomorphism 2.show that nth roots of unity form an Abelian group
21	**AVULAMANDA KARTHIK**	**B.Sc. MPC**	**232**	**Y173028110**	1. state and prove first shifting theorem. 2. state and prove initial value theorem
22	**BATHULA PAVANI**	**B.Sc. MPC**	**238**	**Y173028111**	1.state and prove final value theorem 2.state and prove convolution theorem
23	**BATHULA SOUBHAGYALAKSHMI**	**B.Sc. MPC**	**211**	**Y173028112**	1.state and prove Rolles theorem. 2. state and prove Lagranges mean value theorem.
24	**BAVANAM KASEESWARA REDDY**	**B.Sc. MPC**	**254**	**Y173028113**	1.state and prove Cauchys mean value theorem 2.state and prove Fundamental theorem of integral calculus
25	**BHEEMANADHUNI VEERANJANEYULU**	**B.Sc. MPC**	**229**	**Y173028114**	1.state and prove Cauchy-Schwartz inequality 2. state and prove Bessels inequality
26	**BULLA ESWAR**	**B.Sc. MPC**	**221**	**Y173028115**	1.state and prove Parsevals identity 2.state and prove gramschmidt orthogonalisation process

27	**CHENNAMSETTI JAGADISWARA RAO**	**B.Sc. MPC**	**206**	**Y173028116**	1.find orthonormal basis for the set of vectors {(1,2,3),(2,1,3),(1,1,1)}.2.state and prove cayley _hamilton theorem
28	**CHENNAMSETTY KASIM**	**B.Sc. MPC**	**250**	**Y173028117**	1. state and prove basis existance theorem 2. state and prove rank-nullity theorem
29	**CHIMATA HARIBABU**	**B.Sc. MPC**	**234**	**Y173028118**	1.state and prove invarience theorem on subspaces .2.show that any two bases have same dimension
30	**CHINTAKAYALA SAIKRISHNA**	**B.Sc. MPC**	**230**	**Y173028119**	1.state and prove basis extension theorem. 2.show that range space of a linear transformation is a subspace of V(F)

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Name of the Lecturer : Y. SREEKANTH , Lecturer in Mathematics

Assignments 2019-20

S. No.	Student Name	Group	Roll No.	Hallticket No.	Topic of Assignment
31	DEVARA ASHOK	B.Sc. MPC	244	Y173028120	1.show that null space of a linear transformation is a subspace of U(F) 2. show that dim(α+β)=dimα+dimβ-dim(α ∧ β)
32	DIRISANALA ASHOKREDDY	B.Sc. MPC	219	Y173028121	1.show that dim (V/W)=dimV-dimW 2.If Wis a non empty subset of V then show that W is subspace iff aα+bβϵ V
33	GAJA RAVITEJA	B.Sc. MPC	233	Y173028122	1.state and prove Gauss divergence theorem 2.state and prove Greens theorem
34	GANNEBOYINA GOPIRAJU	B.Sc. MPC	235	Y173028123	1.state and prove Stokes theorem 2.show that curl(gradf)=0
35	GUMMA SIVARAJU	B.Sc. MPC	237	Y173028124	1.state and prove Lagranges theorem 2.state and prove cayleys theorem
36	JONNALAGADDA ABHIRAM	B.Sc. MPC	247	Y173028125	1.state and prove fundamental theorem of homomorphism 2.show that nth roots of unity form an Abelian group
37	KOLUSUPAVANAVENKATASIVAGASAIKUMAR	B.Sc. MPC	218	Y173028126	1. state and prove first shifting theorem. 2. state and prove initial value theorem
38	KOTA RAJESH	B.Sc. MPC	242	Y173028127	1.state and prove final value theorem 2.state and prove convolution theorem
39	KOTA SIVA MADHAV	B.Sc. MPC	201	Y173028128	1.state and prove Rolles theorem. 2. state and prove Lagranges mean value theorem.
40	MALLELA SRAVANI	B.Sc. MPC	204	Y173028129	1.state and prove Cauchys mean value theorem 2.state and prove Fundamental theorem of integral calculus
41	MARREDDY VENKATESWARAREDDY	B.Sc. MPC	215	Y173028130	1.state and prove Cauchy-Schwartz inequality 2. state and prove Bessels inequality
42	MATTUKOYYA VAMSI	B.Sc. MPC	248	Y173028131	1.state and prove Parsevals identity 2.state and prove gramschmidt orthogonalisation process

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43	**MEDABALIMI MAHESH**	**B.Sc. MPC**	**227**	**Y173028132**	1.find orthonormal basis for the set of vectors {(1,2,3),(2,1,3),(1,1,1)}.2.state and prove cayley _hamilton theorem
44	**MOGILI GANESH**	**B.Sc. MPC**	**226**	**Y173028133**	1. state and prove basis existance theorem 2. state and prove rank-nullity theorem
45	**MUDRABOINA SRINIVASARAO**	**B.Sc. MPC**	**224**	**Y173028134**	1.state and prove invarience theorem on subspaces .2.show that any two bases have same dimension
46	**MUTHYALA DIWAKAR**	**B.Sc. MPC**	**212**	**Y173028135**	1.state and prove basis extension theorem. 2.show that range space of a linear transformation is a subspace of V(F)
47	**NAKKA GOPAIAH**	**B.Sc. MPC**	**251**	**Y173028136**	1.show that null space of a linear transformation is a subspace of U(F) 2. show that dim(α+β)=dimα+dimβ-dim(α Λ β)
48	**NANDIPATI SAI KRISHNA**	**B.Sc. MPC**		**Y173028137**	1.show that dim (V/W)=dimV-dimW 2.If Wis a non empty subset of V then show that W is subspace iff aα+bβϵ V
49	**PERIKALA ANILKUMAR**	**B.Sc. MPC**	**207**	**Y173028138**	1.show that every field is an integral domain. 2. show that every finite integral domain is a field
50	**PILLI GANGADHARARAO**	**B.Sc. MPC**	**220**	**Y173028139**	1.show that characterstic of an integral domain is either prime or zero. 2. prove that every boolean ring is commutative.
51	**POGULA AJAYKUMAR**	**B.Sc. MPC**	**203**	**Y173028140**	1. show that intersection of two ideals of a ring R is also an ideal 2. show that union of two ideals is also an ideal iff one is contained in the other.
52	**POSA GOWTHAM**	**B.Sc. MPC**	**214**	**Y173028141**	1.Define a principal ideal ring. Show that every field is a principal ideal ring.
53	**RAMAVATH CHAKRADHARNAIK**	**B.Sc. MPC**	**239**	**Y173028142**	If f is a homomorphism from a ring R into a ring S , then show that Ker f is an ideal of R.
54	**RENTALA ANIL**	**B.Sc. MPC**	**210**	**Y173028143**	Define maximal ideal of a ring. Show that an ideal M of a commutative ring R with unity is maximal iff R/M is a field.
55	**S R BABU**	**B.Sc. MPC**	**205**	**Y173028144**	Find the equation of the right circular cone whose vertex at P (2,-3,5), axis PQ which makes equal angles with the axes and which passes through A(1,-2,3).

S. No.	Student Name	Group	Roll No.	Hallticket No.	Topic of Assignment
56	**SHAIK KAREEM**	**B.Sc. MPC**	**208**	**Y173028145**	Show that the four points (-8,5,2), (-5,2,2), (-7,6,6), (-4,3,6) are concyclic.
57	**SHAIK NAZEER BASHA**	**B.Sc. MPC**	**253**	**Y173028146**	Find the equation to the sphere through origin and making intercepts a, b, c, on the coordinate axes
58	**SHAIK SUBHANI**	**B.Sc. MPC**	**255**	**Y173028147**	1.show that every field is an integral domain. 2. show that every finite integral domain is a field
59	**THOTA RAJESH**	**B.Sc. MPC**	**258**	**Y173028148**	1.show that characterstic of an integral domain is either prime or zero. 2. prove that every boolean ring is commutative.
60	**THULLURI ASHOK**	**B.Sc. MPC**	**202**	**Y173028149**	1. show that intersection of two ideals of a ring R is also an ideal 2. show that union of two ideals is also an ideal iff one is contained in the other.
61	**UKKALAPU HARIKRISHNA**	**B.Sc. MPC**	**240**	**Y173028150**	1.Define a principal ideal ring. Show that every field is a principal ideal ring.
62	**UTUKURI YEDUKONDALU**	**B.Sc. MPC**	**257**	**Y173028151**	If f is a homomorphism from a ring R into a ring S , then show that Ker f is an ideal of R.
63	**UYYALA RANGASWAMI**	**B.Sc. MPC**		**Y173028152**	Define maximal ideal of a ring. Show that an ideal M of a commutative ring R with unity is maximal iff R/M is a field.
64	**VAVILAPALLI VENKATESH**	**B.Sc. MPC**	**222**	**Y173028153**	Find the equation of the right circular cone whose vertex at P (2,-3,5), axis PQ which makes equal angles with the axes and which passes through A(1,-2,3).
65	**VEMAVARAPU PRAKASHKUMAR**	**B.Sc. MPC**	**236**	**Y173028154**	Show that the four points (-8,5,2), (-5,2,2), (-7,6,6), (-4,3,6) are concyclic.
66	**VILASARAPU NAVEEN**	**B.Sc. MPC**	**252**	**Y173028155**	Find the equation to the sphere through origin and making intercepts a, b, c, on the coordinate axes