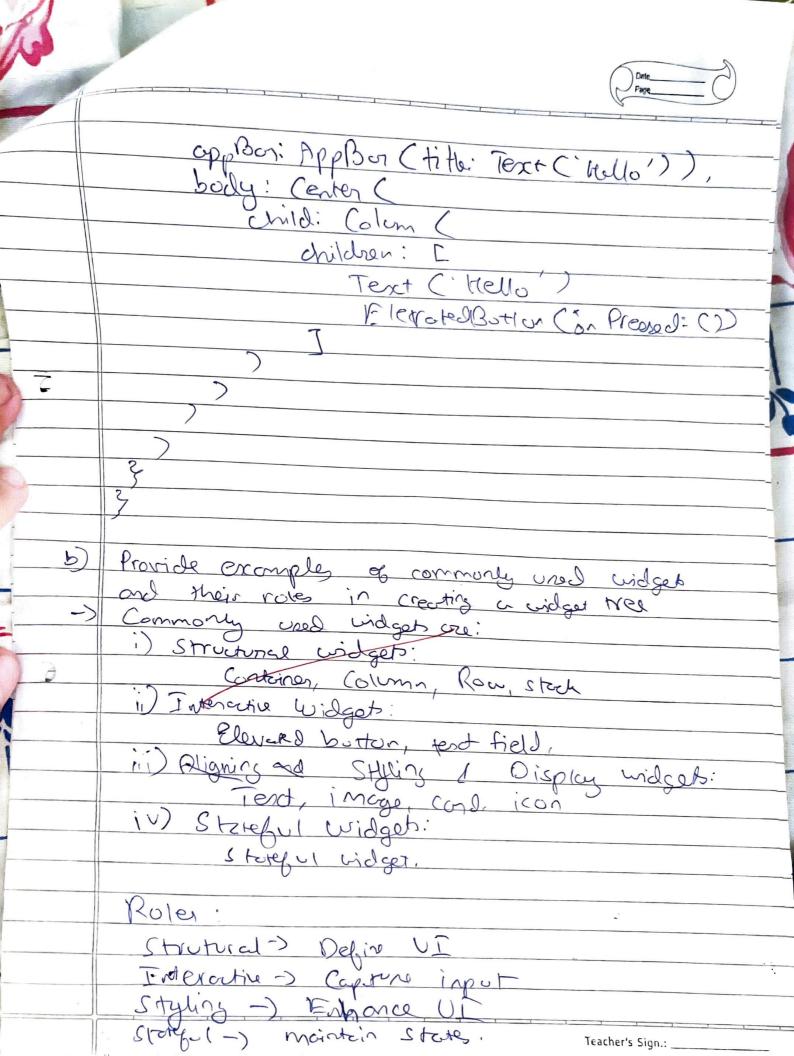
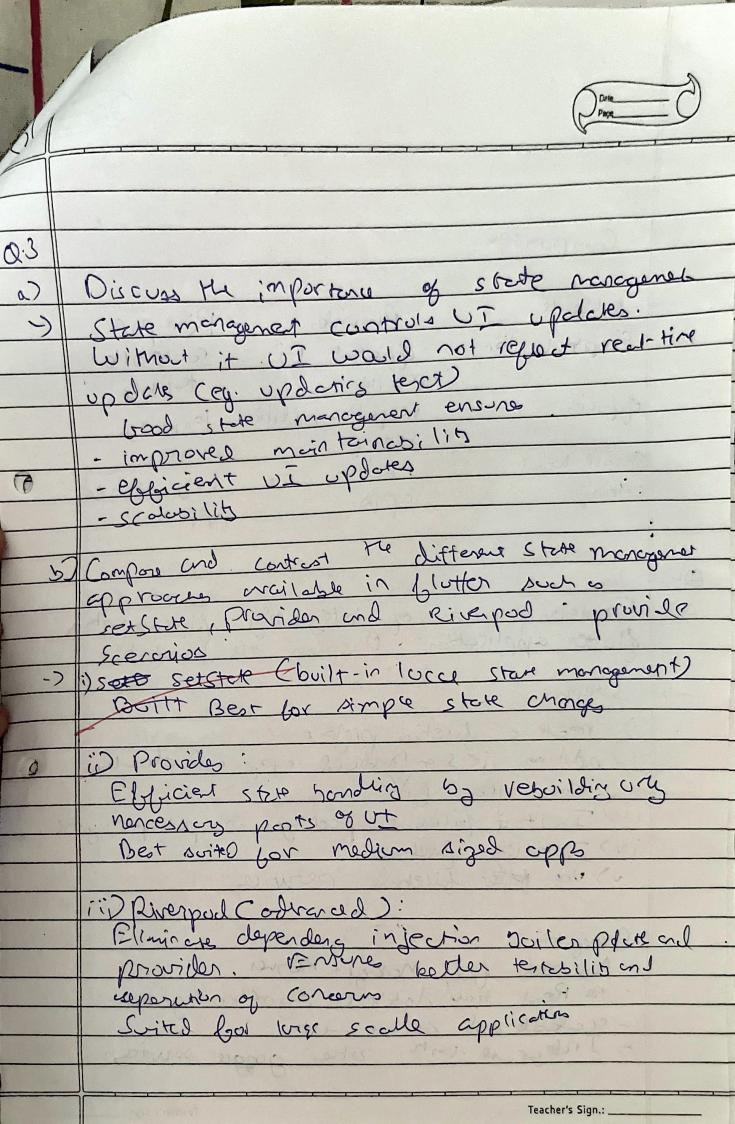
Dhairyon Jain Af 63 Cate Page 22 Assignment-1 a.Deforphin the key focuse and advantages of wing brother for mo bile app development Advantages: and Festures: Dingle Darobose: write once and run on som android and i QS ii) Fast development: Instartly see changes 6 to create highly custoring ask UI ensuring smooth compiles no native code, v) Widget library: pre-designed material and cupertino widget for android & iOS 5) How flutter differs from traditional approaches and its popolarity -> Traditional movile clevelopment requires departe coderous for android and ios, union increase complexity Plater differs by: Dusing widgets instead of native UT components Everything in flutter is a widget making us development consistent octors partiam

Teacher's Sign .:

i) Randering Engine: Flutter draws everything used directly using to skin, boosting performance DEGles development with hot reload: No read to restart re app when making changes Also blutter reduces development effort with a single code bus, high portormer a little U.C. customization. a) Describe the concept of the widged tree in Glutter's
complex now widget composition is used to will
complex UT 2.2 To flotter everything is a vidget. Widget or Organized in a viercochial widget free to structure UI. Widget Compositions: frutter politions à composition-barel approud of unove ut is built by nosting unidget is ide find get son transportered s Complex UIs one built using simple widget Combined regeting & xonple: curs MyApp extends Stateler Widger E Widget build (Bulild contest) { return Mereria APP (
hone: Scaffold ( Teacher's Sign.:





Composison setState Provides Riepod Simple, builtin. Officient UI Scargus 14 testable rewild efficient requires oddition learning serip conve Small, local Medien sire longe ocche change appa (24) a) Explain process of integrating ficebon with a flutter application. Discuss the honogrib -> Steps: i) create a firehore project ii) add an ios an landroid app and doular the jean bill Tastare fricence padages in publical yme iv) Initialize fixescu i) une fitser firebone services Bergin: - No read to maragin remer - Par Real time dates che symphonization - Scalable and source outer gagge souries. Teacher's Sign.:

flightly to fixed a parish common was in considered. of crow date synchronization is actioned. is firen by some some manage una login

Cloud friender - No SOL real-time

database for Atoring and syncing struture ii.) Firebour storage: Afore inages, videos and iv) Figebook messaging- sends notification

o) Analytics - track webs interaction and app Data Cyrchronization Dogs Example: SPE StreamBuilder ( stream: FiebsefireStore, bulldes: (context, onepshot) & if (sneps not. har cta) voter ver mexage-snopshot date remmn Teacher's Sign.: \_