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	GS Advanced	Program	2023	
	Generic Test Name/Cod	Booklet le/No691	046	
Name				
Email ID.				
Roll No.				
Mobile No.		Date		

Allotted Time: 60 Minutes

#### Instructions to Candidates -

- · There are 7 Questions in this Question paper.
- All Questions are Compulsory.
- For all updates, please visit the noticeboard https://noticeboard.forumias.com/gsap-2023/

#### Important -

- Answers must be attempted in the QCA Booklet only.
- To upload the Answer Copies please visit to "My Course" section on https://academy.forumias.com/
- Only those copies will be evaluated which will be submitted before the next class.

Q. No.	Grade/Score
1	
2	
3	111
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6	
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Overall Grade/Score	

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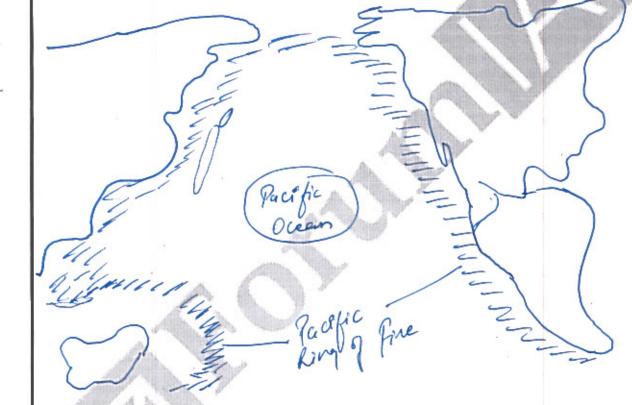
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Q.1)

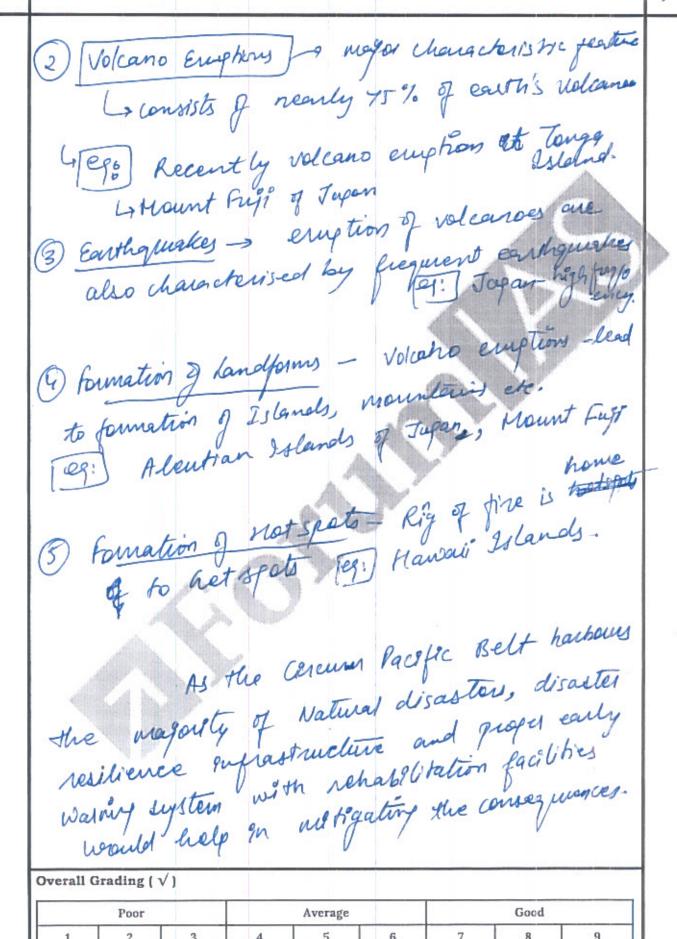
The Circum Pacific Kone, also referred as The Ring of Fine is a parth along the Pacific Ocean which is Charactalong the Pacific Ocean which is characteritypale terred by volcano and frequent cartigrals



Geophysical character 78 HCS.

D Location - Located around Reight Ocean covering parts of Europe, Asia, Australia, south and North America.

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Q.2)

Archipelagas reposs to cluster of relatively small Islands, tend to be predominantly volcanic due to movement of ocoanic plates

Indonesian and Phillippines
Archipelayos

Archipelayos

Sunda oceanic plate

Densey

Indo Australian

sunda Oceanic Norte

. subfliction Lone

Sen plate

Oceaning lute

Photoppine Archipelago. Oceanic

Formation

1) Indonesian and Philippines archipelages are located at the conveyence of ocean- ocean plate

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- D Whon both collide -> denses ocean plate subducts into asthenosphere -> this region is called subduction zone.
- 3) Due to high temperature and prossure, rocks undergo meturiorphosis and melts to form
- At the surface mapine escapes on the formy of volcanse one tions. -) constant english form volcanic mountains
- (5) Over time the mountain merge, and ceeping oust gets transformed into continuent
- (1) This dead to formation of Indonesian and philippines outhof relegas.

The region is also located on

The region is also located on

the Pacific Ring of Fire and its frequency

and its frequency

and respectively which make it a

is higher white which make it a

the peology of the area.

Overall Grading (  $\sqrt{}$  )

	Poor			Average			Good	
1	, 2	3	4	5	6	7	8	9

# 

Q.3)

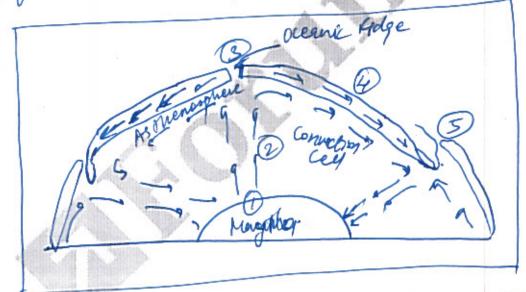
Arthury Helmes. In 1530 discoursed the possibility of connection currents operating on the months portion.

Connection Currents are flowery fluids because shere is a temperature or density difference within the material

Temperature = lead organisty

( D) Herentralism

Generation convection Currents



5 Rosey limbs of cell creates enounces energy - puts pressure on crust and breaks PT. prueyent limbs , mane ento offerte direction - meets the bitrosphere

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Difference Lones (marked on diagram)

1) Heat is generated due to the decay of radioactive elements and heat remaining from the primation of Earth.

The heat slawly uses through the mantle to the as Thenosphere

3) Lodge push - the Intrusion of magny Into an oceanic ridge pushes the plate

@ Plates floats on the convention and of the astnewdparene = Frictions The denser oceanic stab sintes quito

the subduction zone at the trends due to gravitational force [4:] Margang

Connection Cornert Nypothesis hay provided an emportant mechanism for englarning sue continental duft, see floor spreading and plate tectoric

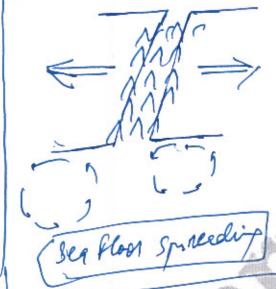
Overall Grading ( V)

Poor		Average			Good			
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Q.4)

sea floor spreading was given by
Hers and said that connection currents
uphare the oceanix crust at Hid oceaniz
Adars through constant emplois pushing
oceanic crust on enther side.



Fred Median

Paleemapuetism

1

Characteristres peatures - evidences for ser plans.

- 1 Oceanic crust were much jourges than
  Than the continental court & oceanic

  court & subducts of due spready.
- Rocks on either state of the accounter

  floor ridges have equilable fount
- D'Age Encreases from tidoceaux

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Yalacomognetism 4) The study of magnetic rocks and sediments to record the his bory of the magnetic field.

Evidence of Sea floor hypothesis

- 1) Majority of ocean floor so basaltic rocks - have magnetic materials - align themselves in the magnetic field affection
- D'Alternate magnetie rock stripes were normed stripe having normed stripe having normal polarity and next having reversed polarity
- 3) Even the alternate stapes with palaemagnetos m property house same ge Merefore, Sea floor spreading

and Palacomagnetism provided foundation ground for Plate techonic

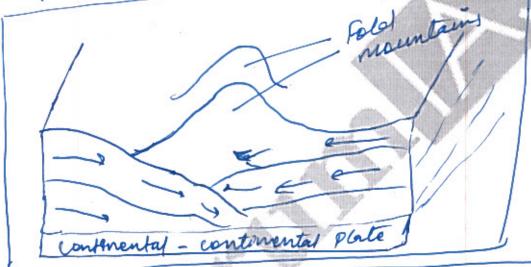
Overall Grading (  $\sqrt{}$  )

	Poor			Average	Goo		Good		
1	2	3	4	5	6	7	8	9	

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Q.5)

fold mountains are the mountains formed from the folding of the earth crust. They are joined when two tectoric plates move powards each other, leading to folding of the layers of Earth.

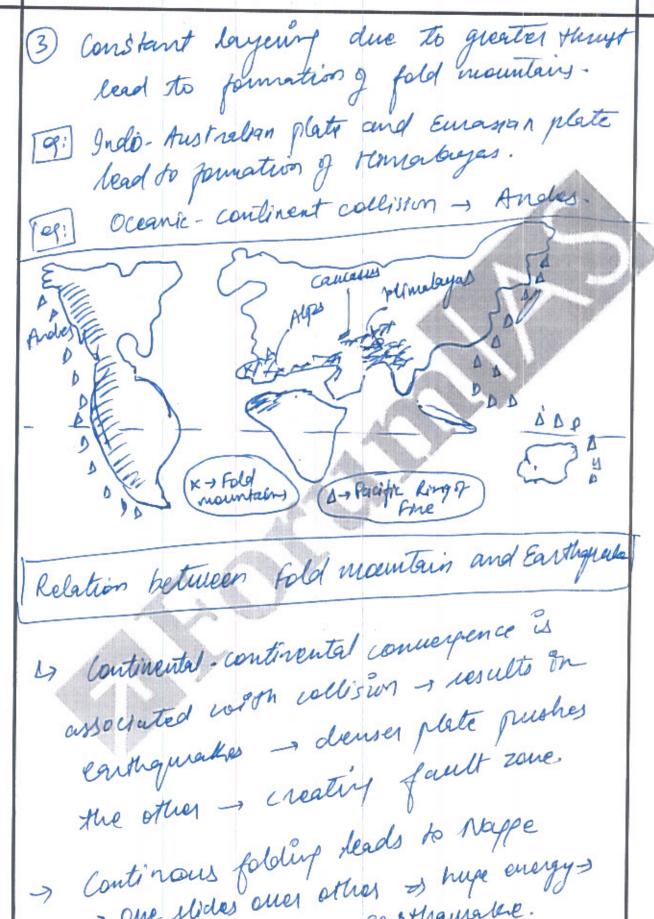


Fold mountains - located on margins of continents

1) when two plates collede - say Continent-continent 10 cernic = + thurst is created between the two.

Two forces acting between the mountains reaches its limit and start formery a layer on another.

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one stides ones other of huge energy

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oceanic plate grands against other others.

Les results in obser seated earthquakes.

Andres fold mountain formation.

Relation between fold mountains and volcanoes.

- ( Collision between oceanic and continents)

  plate takes plate = oceanic plate

  plate takes plate = oceanic plate

  plate takes plate = oceanic plate
- Malten majorna rises to the surface

  of form volcanoes enther as an

  or as continental landmas

  or as continental landmas

  or as continental landmas

  or as continental landmas

(fold mountain formation

The grobal distribution of fold mountain the permeen various for enteraction the between various between tectowic plates and has close relationship between vectories plates and has close relationship between vectories and earthquakes.

Overall Grading ( √)

Poor			Average			Good		
1	2	3	4	5	6	7	8	9

Q.6)

The theory of continental drift als profounded by Afred wegenes in to englarin the major vousalion of climate In the past.

Theory

4 About 200 million years ego, the continents of earth were united to four supercontinent called Par gara and surrounded by super even Panthales

Panthales 9

Gondwang lound

4 the hepromy of Mesozaic era, Panguer break up into two landmasses Lamasiq 4 They purtues broke into smaller pieces due Holal and pole-fleery force and diefted to present position. confinent fleat on ecean

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Prominent pieces of tridence

1) Tig-Saw-Fit

Atlantic wast of South America and

Africa has similar shape.

plateau of orkolong

Hourtain

- 2) Rocks of same ages across the occans structure for evidence.
- (3) Tillite sectionentary recks
  formed out of deposits of glacies
  teps talchar odishy.
- (4) Placer Deposits
  4 occurence of sich places deposits
  of gold at Chang coast and absence
  of gold at Chang coast and absence
  the Big 281.

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4Costofteris 4 fassils of this pern have been found in the all the southern continents shows they were all once garned topether

Ly Did not emplain the mealing again of Cinibations L) Differential gravitational forces and pole fleery forces were not sufficient enough 4 fails de explains source formation of mountains such as nonalayes, well ot. Though the theory has some unitation but it provided the foundation for the development of subsequent there's such as

#### Overall Grading ( $\sqrt{}$ )

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Plate tectoric Theory

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Q.7)

The plate becomic theory
was developed by Mchenzic, Parker
and Margan in 1967.

It was based on 3 endences

Sur floor, Palaco
Aprending Palaco
Magnetism Current,
Mysomers

A tatoric plate generally insequent

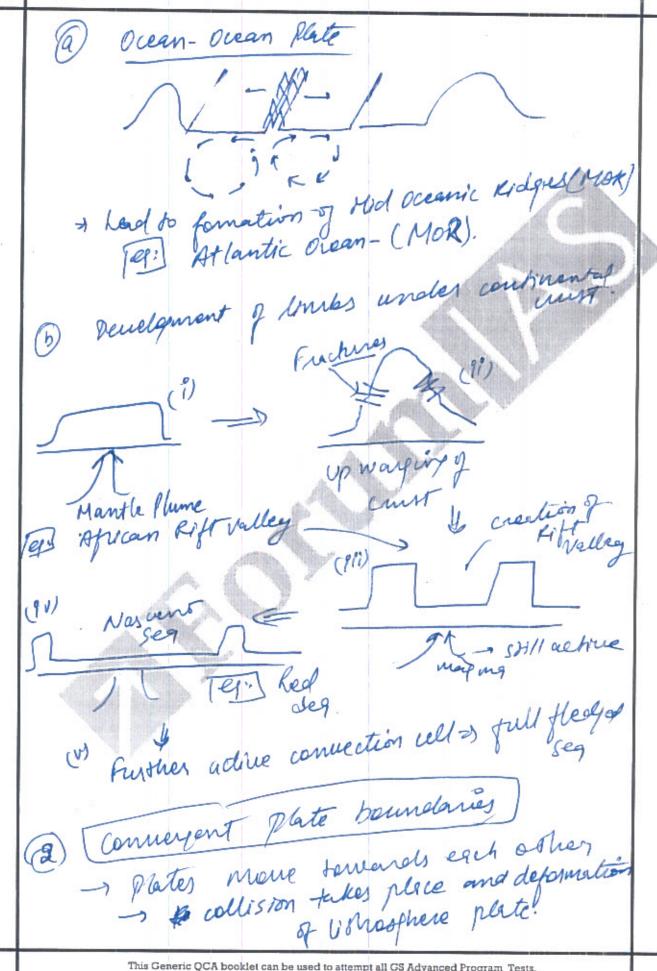
In shape and oceanic hishoophine both continental and oceanic hishoophine

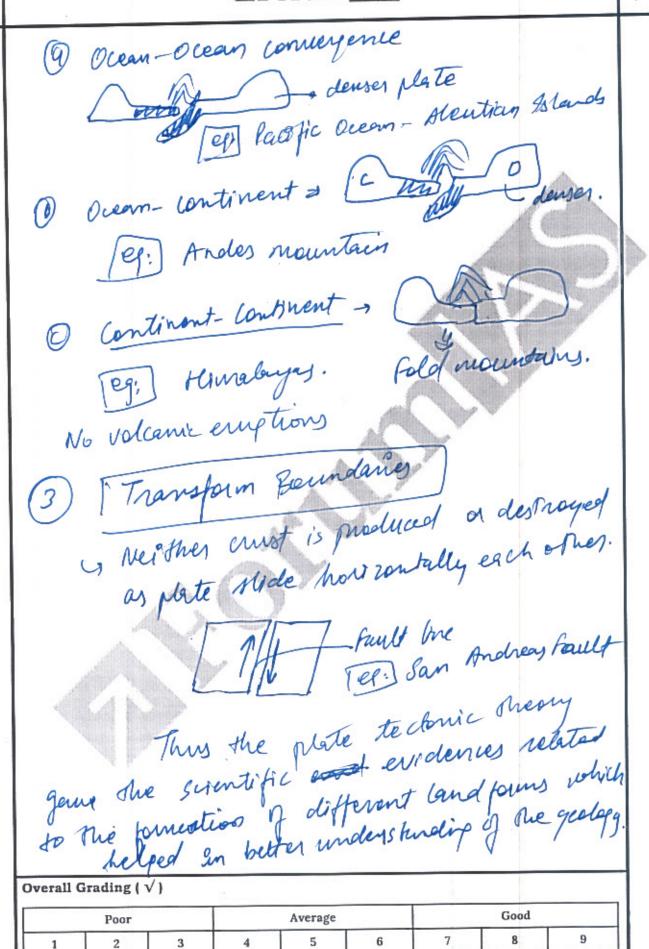
[eq:] Pacific Plate - oceanic Eurosian Plate - continental.

There plates moves forwards or amay
from each other and results and landmoss
formation of continents and landmoss
formation of continents and landmoss.

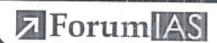
Types of Plate Boundaries

Divergent Boundaries -, these are developed in those region where convertions cell has vising links.





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