Test Booklet Code & Serial No. प्रश्नपत्रिका कोड व क्रमांक

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# Paper-III EARTH, ATMOSPHERIC, OCEAN & PLANETARY SCIENCE

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Pages in this Booklet: 20					Book	let	: 75
Seat No. and OMR Sheet No. in the space provided of this page. consists of 75 objective type questions. Each question wo marks. All questions of Paper-III will be compulsory, attre syllabus (including all electives, without options). Immencement of examination, the question booklet ren to the student. In the first 5 minutes, you are to open the booklet and compulsorily examine it as  have access to the Question Booklet, tear off the per seal on the edge of this cover page. Do not accept booklet without sticker-seal or open booklet.  Illy the number of pages and number of questions the booklet with the information printed on the ever page. Faulty booklets due to missing pages/ estions or questions repeated or not in serial der or any other discrepancy should not be cepted and correct booklet should be obtained on the invigilator within the period of 5 minutes. terwards, neither the Question Booklet will be placed nor any extra time will be given. The same applease be noted.  The terminate of the proposes marked (A), (B), and the placed of a placed on the placed on the story alternative responses marked below on the response against each item.	पिरक्षार्थींनी आपला अ     तसेच आपणांस दिलेत     सदर प्रश्नपत्रिकेत 7     आहेत. या प्रश्नपत्रिके     हे या विषयाच्या संपूष      उ. परीक्षा सुरू झाल्यावर     मिनीटांमध्ये आपण स     पहाव्यात.     (i) प्रश्नपत्रिका     सील नसलेत     (ii) पहिल्या पृष्     तसेच प्रश्नप     पृष्ठे कमी     कम असले     सुरुवातीच्य     प्रश्नपत्रिक     मिळणार ना     विद्यार्थ्यांनी     (iii) वरीलप्रमाप     ओ.एम.आर  4. प्रत्येक प्रश्नासाठी (A     आहेत. त्यातील योग्य     काळा/निळा करावा.	त्रासन क्रम् त्या उत्तरप् 5 बहुपय तील सर्व ति अभ्यास विद्यार्थ्या दर प्रश्नप् उघडण्या ती किंवा असलेली ली किंवा मांच्यु ही तसेच्या चे सर्व चे सर्व उत्तरप्रि उत्तरप्रचि उत्तरप्रच	ांक या पृष्ट तित्रकेचा क्र र्गि प्रश्न सोड क्रमावर अ ला प्रश्नपीं तित्रका उघड <b>द केल्याप्र</b> न एकूण प्र न एकूण प्र न स्थावी. न स्थावी. न स्थावी. न स्थावी. उक्ती वाढ् न स्थावी. उक्ती वाढ्या र काना स्थाना स्याना स्थाना स्	अवरील वर्ग मांक त्यार आहेत. प्रत विणे अनि श्रिका दिली प्रका दिली दून खालीक माणे प्रश्न भाणे प्रश्न श्रिका स्थानंतर खून मिळ पहिल्यान लिहावा. )) अशी च	वाली लिह चेक प्रश्न वार्य आहे. हेत. । जाईल. र् ल बाबी अ लावलेले र गपत्रिकेचें ख्या पडत ली/प्रश्नां गी सदोष ला परत प्रश्नपत्रि गार नाहीं । तरच प्रा	ावा. ।स दो सदर्र सदर्र सदर्र सवर्र सवकार स्वकार	न गुण वे प्रश्न वे प्रश्न वे प्रश्न उपासून घडावे. हू नये. ग पृष्ठे गहावी. (कीचा विकास दुसरी बदलून कृपया
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in the circle in the OMR Sheet, it will not be evaluated. uctions given inside carefully. It is to be done at the end of this booklet. It is your Name, Seat Number, Phone Number or put on any part of the OMR Sheet, except for the space or the relevant entries, which may disclose your ruse abusive language or employ any other unfair will render yourself liable to disqualification. Or return original OMR Sheet to the invigilator at the examination compulsorily and must not carry it with the the Examination Hall. You are, however, allowed to Test Booklet and duplicate copy of OMR Sheet on of examination.  Blue/Black Ball point pen.  y calculator or log table, etc., is prohibited.	इतर ठिकाणी लिहीलेली  6. आत दिलेल्या सूचना  7. प्रश्नपत्रिकेच्या शेवटी  8. जर आपण ओ.एम.अ नाव, आसन क्रमांक, केलेली आढळून आल अवलंब केल्यास विह  परीक्षा संपत्यानंतर वि परत करणे आवश्यक  द्वितीय प्रत आपल्याब  10. फक्त निळ्या किंवा  11. कॅलक्युलेटर किंवा	र्गांची उत्तरे तपा काळजीपृ जोडलेल गर. वर न फोन नंब यास अथव्यास अथव्यास आहे. तथा रोबर नेण्य काळ्या व लॉग टेब	रे ओ.एम.ड स्ती जागर र्वक वाचाव मूद केलेल्ट र किंवा अ अप्तेश्य भ परीक्षेय भ पूर्व ओ.एम पी, प्रश्नपि ग्रस विद्याध्याल येनच्याल वापरण्	भार. उत्तर नाहीत. यात. यात विकाणा गा ठिकाणा गिरुख पटेल भाषेचा वाए भारे उत्ति अंगर. उत्ति अंगर. उत्ति वर्षां परवा प्रस्वा च यास परव	प्रिकेतच् भच्चे काम ज्यतिरीत्त त अशी के ए किंवा इ ण्यात येईल एप्रजार प्रमाआर नगी आहे करावा. सनगी ना	न करावे इतर जेणतीही तर गैरम् न र्यवेक्षव उत्तरपा	त्रे. कोठेही ही खूण मार्गाचा कांकडे
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# Earth, Atmospheric, Ocean and Planetary Science Paper III

Time Allowed: 2½ Hours] [Maximum Marks: 150

**Note:** This Paper contains **Seventy Five (75)** multiple choice questions, each question carrying **Two (2)** marks. Attempt *All* questions.

- The shear zone that extends from Antarctica, India to Madagascar is:
  - (A) Central Indian Shear Zone
  - (B) Achan Kovil Shear Zone
  - (C) South Indian Shear Zone
  - (D) Palghat-Cauvery Shear Zone
- 2. En-echelon vein pattern in a rock will indicate :
  - (A) Pure tension
  - (B) Compression
  - (C) Shear zone
  - (D) Normal slip

- 3. The neogene period includes:
  - (A) Palaeocene and Eocene
  - (B) Palaeocene, Eocene and Oligocene
  - (C) Miocene, Pliocene, Eocene
  - (D) Oligocene, Miocene and Pliocene
- 4. The clast supported conglomerate belong to the basal Bababudhan Group of South India is an example of ...... of Archaean age.
  - (A) Tolchir Boulder Bed
  - (B) Cataclastic Breccia
  - (C) Intraformational Oligomictic
    Conglomerate
  - (D) Oligomictic Orthoconglomerate

5. Match the following items in Group I with those of Group II and select the correct answer using the codes given below:

## Group I

- (p) Catastrophism
- (q) Neptunism
- (r) Uniformitarianism
- (s) Plutonism

### Group II

- (1) All rocks precipitated from a universal ocean
- (2) Earth was shaped primarily by rapid and violent events
- (3) Many of earth's primitive rocks were formed by heat from the interior
- (4) Present processes are the key to understanding processes of the past

#### Codes:

- (p) (q) (r) (s)
- (A) (1) (3) (4) (2)
- (B) (2) (1) (4) (3)
- (C) (4) (2) (3) (1)
- (D) (3) (1) (4) (2)

- 6. What is the age of plant fossil Glossopteris?
  - (A) Permo-carboniferous
  - (B) Jurassic
  - (C) Triassic
  - (D) Cretaceous
- 7. Apical disc is present in:
  - (A) Gastropoda
  - (B) Echinoidea
  - (C) Anthozoa
  - (D) Trilobita
- 8. Which of the following is an articulate Brachiopod?
  - (A) Spirifer
  - (B) Rhynchonella
  - (C) Terebratula
  - (D) All of the above
- 9. The most typical rock of 'Mollasse Sequence' is:
  - (A) Orthoquartzite
  - (B) Arkose
  - (C) Greywacke
  - (D) Lithic Arenite

- - (A) Antidunes bedding
  - (B) Planar cross stratification
  - (C) Flaser bedding
  - (D) Current bedding
- - (A) Lamination
  - (B) Lamina
  - (C) Bed
  - (D) Stratification
- 12. Antidunes, chutes and pools are formed under ...... flow regions.
  - (A) Lower
  - (B) Upper
  - (C) Subcritical
  - (D) Critical

- 13. Bouger plate correction for gravity measurement means :
  - (A) Compensation for the gravity station with reference to elevation above reference ellipsoid and is to be added to reading
  - (B) Compensation for free air coloumn at gravity station above the MSL and is substracted from the reading
  - (C) Compensation for the effect of layer of rocks corresponding to the elevation difference between measurement station and reference surface levels
  - (D) Compensation for microgravity
    variation due to lunar phase
    changes and lunar distance

- 14. Which of the following statements is *correct*?
  - (A) Seismic wave propagation is related to specific gravity of the matter
  - (B) Seismic wave propagation is function of rigidity, density and elastic modulus of the medium
  - (C) 'S' waves can travel through liquid
  - (D) 'P' waves are a type of surface wave which appears first on surface
- 15. Which of the following is a *correct* statement for shear waves ?
  - (A) Shear waves are compressionrarefication type waves
  - (B) Shear waves are similar to acoustic waves
  - (C) Shear waves have particle movement in direction of propagation of wave
  - (D) Shear waves have particle movement perpendicular to the direction of propagation of seismic wave

- 16. A heat flux (q) in the x direction (qx) is proportional to the magnitude of temperature change across a unit distance in x direction. If K is thermal conductivity characteristic of the material. qx is expressed by:
  - (A)  $\left(\frac{dT}{dx}\right)^{qK}$
  - (B)  $dT\left(\frac{dx}{K}\right)$
  - (C)  $-K\left(\frac{dT}{dx}\right)$
  - (D)  $\left(\frac{d\mathbf{T}}{dx}\right) \cdot \left(\frac{d\mathbf{K}}{dx}\right)$
- 17. A hydrologic unit containing one large aquifer or several connected and inter related aquifers is the definition of:
  - (A) Reservoir basin
  - (B) Aquifer cloud
  - (C) Groundwater basin
  - (D) Water contivity

- 18. Coal layers that are shiny black and brittle and showing conchoidal fracture are termed as:
  - (A) Fusain
  - (B) Vitrain
  - (C) Durain
  - (D) Clarain
- 19. Atmospheric models built from fundamental conservation laws governing the physical behavior of the atmosphere and use of numerical methods to obtain the (approximated) solution to the system of coupled governing equations are:
  - (A) Empirical models
  - (B) Statistical models
  - (C) Numerical models
  - (D) Analytical models

- 20. According to classical model of atmospheric electricity, the Earth's surface is:
  - (A) Positively charged
  - (B) Neutral
  - (C) Negatively charged
  - (D) Zero charged
- 21. In fair weather condition, near the Earth's surface, the vertical electric field is about :
  - (A) 300 V/m
  - (B) 1000 V/m
  - (C) 100 V/m
  - (D) 500 V/m
- 22. When the atmospheric net radiation is positive:
  - (A) Temperature increases
  - (B) Temperature decreases
  - (C) Temperature remains constant
  - (D) Temperature approaches to zero

- 23. In the atmospheric modelling system, the prognostic equations :
  - (A) Involve time derivative
  - (B) do not contain time derivative
  - (C) Involve diagnostic variables
  - (D) Contain secondary variables
- 24. Rainfall contribution from western disturbances are significant over :
  - (A) Parts of Northern India during southwest monsoon
  - (B) West coast of southernPeninsular India duringsouthwest monsoon
  - (C) Parts of Northern India during winter
  - (D) Whole of west coast during southwest monsoon

- 25. The angle between isotherms and dry adiabats in a Tephigram is:
  - (A) 45 degree
  - (B) 90 degree
  - (C) 30 degree
  - (D) 60 degree
- 26. The instability resulting from the forced lifting of the parcel is conditional instability and occurs when:
  - (A) d < < s
  - (B)  $\lceil s \rceil < \lceil c \rceil = d$
  - (C)  $\lceil s \rceil < \lceil d \rceil < \lceil d \rceil$
  - (D)  $\lceil \overline{d} < \lceil \overline{s} < \rceil \rceil$

Where d is dry adiabatic lapse rate, d is environmental lapse rate and d is moist adiabatic lapse rate.

- 27. Gravity and gravitational forces are related through:
  - (A) Gravity force = gravitational force + Coriolis force
  - (B) Gravity force = gravitational force + centrifugal force
  - (C) Gravity force = gravitational
     force + vertical pressure
     gradient force
  - (D) Gravity force = gravitational force + viscous force
- 28. Horizontal wind speed generally increases with altitude above Earth's surface because:
  - (A) Coriolis force and frictional force increase with height
  - (B) Gravity force is larger at the surface
  - (C) Frictional force decreases with height
  - (D) Coriolis and centrifugal forces decrease with height

- 29. Salinity is a major water property directly linked to the:
  - (A) Atmospheric general circulation
  - (B) Tropospheric circulation
  - (C) Oceanic general circulation
  - (D) Monsoon circulation
- 30. Reynolds stress has:
  - (A) Three components
  - (B) Nine components
  - (C) Only one component in the *x*-direction
  - (D) Twelve components
- 31. Ekman layer is characterized by:
  - (A) Constant wind direction at all heights
  - (B) Constant wind speed at all heights
  - (C) Turning of wind with height
  - (D) Increase in air temperature with height

32.	A density log provides a continuous	34.	4. Calc-granulite rocks of sausar sup					
			group of Central India are:					
	record of a formation's reaction to		(A) Basic volcanics deformed in					
	medium energy focused		granulite facies					
	(A) Fast neutrons		(B) Not true granulites but impure					
			calcareous sediments deformed					
	(B) Gamma rays		in upper-amphibolite facies to					
			calc-gneisses					
	(C) Sound waves		(C) Impure calcareous sediments					
	(D) Electric current		deformed in granulite facies					
			(D) Deformed grano-diorites					
33.	The Devonian period has been	35.	A secondary texture consisting of					
			irregular worm like blebs or rods of					
	popularly called the		quartz in plagioclase host adjacent					
	(A) Age of Reptiles		to alkali feldsar grain is called					
() <b>0</b>			as:					
	(B) Age of Dinosaurs		(A) Myremekite					
	(C) Age of Fish		(B) Granophyric					
			(C) Perthitic					
	(D) Age of Amphibians		(D) Graphic					

- 36. The gossans are commonly formed due to:
  - (A) Metasomatic replacement
  - (B) Oxidation and secondary sulphide enrichment
  - (C) Magmatic differentiation
  - (D) Contact metasomatism
- 37. Porphyry copper deposits are associated with:
  - (A) Mid oceanic ridges
  - (B) Subduction zones
  - (C) Continental rifts
  - (D) Back arc basins

- 38. Which of the following is a *correct* statement?
  - (A) Mahakoshal Group of Central

    India is a platformal volcanosedimentary association.
  - (B) Mahakoshal Group represents a stable continental marginal basin.
  - (C) Mahakoshal Group represents a volcano-sedimentary belt in intra-cratonic mantle activated rift found by faults.
  - (D) Mahakoshal Group is a shoestring type marginal basin.

- 39. The major granitic activity in Indian Peninsula with large granite plutons is of which age?
  - (A) 1100-1400 m.y.
  - (B) 450-700 m.y.
  - (C) 2400-2550 m.y.
  - (D) 70-90 m.y.
- 40. Difference between Algoma type deposits and superior type deposits is that:
  - (A) Superior type deposits are thick, massive iron ores of early Proterozoic with stable precipitation from chemical phase
  - (B) Algoma type deposits are leusoidal, non-continuous iron ores of late Archaean-early Proterozoic with Mn deposits and carbonate association
  - (C) Both (A) and (B) above are wrong propositions
  - (D) Both (A) and (B) above are correct statements indicating characteristic features

- 41. Sukhinda Complex of Odisha is famous for :
  - (A) Chromite deposits
  - (B) Pb-Zn deposits
  - (C) Copper deposits
  - (D) Gold deposits
- - (A) Carbonaceous chondrites
  - (B) Ordinary chondrites
  - (C) Achondrites
  - (D) Enstatite chondrites
- 43. Values for REEs measured are typically normalized to chondritic values because chondritic values are considered to represent:
  - (A) Average solar nebular values
  - (B) Average Mars composition
  - (C) Average sun's composition
  - (D) Average lunar composition

- 44. The Widmanstatten exsolution pattern in Iron meteorites are characterised by intergrown crystals of:
  - (A) Ti poor and more Ni-rich alloy
  - (B) Ni poor and more Ni-rich alloy
  - (C) Cr poor and Cr-rich alloy
  - (D) Mn poor and Cr-rich alloy
- 45. The mineral assemblage quartzsapphrine is characteristic of :
  - (A) Amphibolite facies
  - (B) Eclogite facies
  - (C) Blue schist facies
  - (D) Ultra-High Temperature (UHT)
    Metamorphism
- 46. Eclogite facies rock with composition of garnet and omphacite indicates that the source rock of eclogite was:
  - (A) of impure dolomitic composition
  - (B) of impure granodioritic composition
  - (C) of basaltic composition
  - (D) of andesitic composition

- 47. The volcanic equivalent of nepheline syenite is:
  - (A) Andesite
  - (B) Basalt
  - (C) Rhyolite
  - (D) Phonolite
- 48. Characteristic minerals of kimberlites are:
  - (A) Olivine-chrome diopsidephlogopite
  - (B) K-feldspar-garnet-orthopyroxene
  - (C) Plagioclase-clinopyroxenegarnet
  - (D) Cordierite-sillimanite-orthopyroxene
- 49. Basalts containing more than 5% normative nepheline are termed as:
  - (A) Nephelinite
  - (B) Ankaramites
  - (C) Basanite
  - (D) Phonolite

- 50. One of the following statements about the trade winds is incorrect:
  - (A) They lie between the subtropical belts of subsidence and the equatorial convergence zone
  - (B) They are the most regular wind systems found at the Earth surface
  - (C) Their origin is in the subsidence of the sub-tropical high-pressure zones
  - (D) The Coriolis effect gives the winds an eastward turn, so they become northwesterly winds in the northern hemisphere and southwesterly in the southern hemisphere

51. Match the following and select the correct answer using the codes given below:

#### **Isoline**

- (a) Isobar
- (b) Isohyets
- (c) Isotherm
- (d) Isohel

#### Lines of

- (i) Equal sunshine
- (ii) Equal amounts of rainfall
- (iii) Equal barometric pressure
- (iv) Equal temperature

#### Codes:

- (a) (b) (c) (d)
- (A) (iv) (iii) (ii) (i)
- (B) (iv) (ii) (iii) (i)
- (C) (iii) (ii) (iv) (i)
- (D) (i) (ii) (iv) (iii)

- 52. Two general locations where precipitation totals tend to be above average for the Earth:
  - (A) The equator and on west side
    of the continents in mid
    latitudes
  - (B) The equator and tropic of cancer
  - (C) The tropics of cancer and capricorn
  - (D) The equator and on the east side of the continents in mid latitudes
- 53. A river is not likely to have braided channel, if:
  - (A) it is subjected to large fluctuations in discharge
  - (B) it has generally large load
  - (C) it tends to have very low percentage of solid load
  - (D) it drains heavily forested regions

- 54. This is a dimensionless number that defines the type or degree of turbulence in a flow:
  - (A) Reynolds number
  - (B) Froude number
  - (C) Boundary shear stress
  - (D) Manning roughness coefficient
- 55. Match the following and select the correct answer using the codes given below:
  - (a) Bajada
- (i) Stony Desert
- (b) Hammada
- (ii) Sand desert
- (c) Reg
- (iii) Rocky desert
- (d) Erg
- (iv) Belt of coalescing fans

Codes:

- (a) (b) (c) (d)
- (A) (iv) (ii) (iii) (i)
- (B) (iii) (iv) (ii) (i)
- (C) (iv) (iii) (i) (ii)
- (D) (i) (ii) (iii) (iv)

- 56. The terms water gaps and wind gaps and beheading are associated with:
  - (A) Antecedant drainage
  - (B) Superposed drainage
  - (C) Stream piracy
  - (D) Structurally controlled drainage
- 57. The ratio of the volume of water that, after saturation, can be drained by gravity to its own volume is called:
  - (A) Specific retention
  - (B) Specific yield
  - (C) Field capacity
  - (D) Storage coefficient
- 58. Methemoglobinemia or blue baby syndrome is caused due to pollution of drinking water by :
  - (A) Nitrate
  - (B) Fluoride
  - (C) Arsenic
  - (D) Sulphate

- 59. Gravity measurements at a given spot by standard gravimeter gives:
  - (A) Absolute gravity at the spot
  - (B) Absolute gravitational acceleration at the spot
  - (C) Relative measurement of gravity at the spot
  - (D) Diurnal variation in gravity at the spot
- 60. The material transported on the surface of glaciers is called:
  - (A) Englacial
  - (B) Subglacial
  - (C) Supraglacial
  - (D) Paraglacial
- - (A) 100 Ka, 50 Ka
  - (B) 20 Ka, 100 Ka
  - (C) 80 Ka, 20 Ka
  - (D) 30 Ka, 60 Ka

- 62. The refractive index of the ocean water:
  - (A) Increases with salinity
  - (B) Increases with temperature
  - (C) Decreases with salinity
  - (D) Decreases with temperature
- 63. Which one of the following helps to identify the objects on the earth surface ?
  - (A) Atmospheric window
  - (B) Signature
  - (C) Radiometric error
  - (D) Atmospheric diffusion
- 64. Which one of the following is *not* a remote sensing satellite?
  - (A) LANDSAT
  - (B) IRS
  - (C) RBV
  - (D) IKONOS

- 65. Which of the following is *correct* statement?
  - (A) The Son-Narmada-Tapti(SONATA) lineament zone is a younger rift of post-cretaceous age
  - (B) Son-Narmada-Tapti lineament is a graben structure
  - (C) The SONATA zone is a amalgamation of earthy Proterozoic rift in Hoshangabad-Sidhi-Gaya sector and much younger cretaceous-sub-recent graben in western sector. It is now a horst in Hoshangabad-Gaya while Graben west of Omkareshwar
  - (D) There is faulting along present
    day Narmada river course
    which has resulted in the linear
    course

- 66. A frequent cause of tight spots in the drilled hole occur where abundant presence of ............. clays.
  - (A) Kaolinite
  - (B) Chlorite
  - (C) Smectite
  - (D) Illite
- - (A) S. P. log, calipar log, drill time log
  - (B) Gamma log, spectral log, spectral gamma log
  - (C) Neutron log, density log, sonic log
  - (D) Normal log, lateral log, induction log

- 68. The three basic types of kerogen recognizable based on the differences in chemical characteristics and nature of original organic matter are:
  - (A) Category 1, Category 2,
    Category 3
  - (B) Set 1, Set 2, Set 3
  - (C) Type I, Type II, Type III
  - (D) Organic, Inorganic, Plant based
- 69. Crude oil density, in degrees API

  (American Petroleum Institute), is a

  measure of viscocity. The value of

  14 API corresponds to:
  - (A) Water
  - (B) Heavy crude
  - (C) Light crude
  - (D) Mixed (Average) crude

- 70. The most striking morphological feature of the ocean floor is the :
  - (A) Mid-Ocean Ridge (MOR)
  - (B) Seamount
  - (C) Continental Slope
  - (D) None of the above
- 71. Which component of the continental margin has the greatest economic and political significance?
  - (A) Continental slope
  - (B) Continental rise
  - (C) Shelf break
  - (D) Continental shelf
- 72. Highly sodic olivine poor basalt with albite or oligoclase as the sole principal feldspar is called:
  - (A) Trachybasalt
  - (B) Tholeitic basalt
  - (C) Mugearite
  - (D) Spirrite

- 73. The magnesium rich variety of olivine is called:
  - (A) Larnite
  - (B) Tephroite
  - (C) Fayalite
  - (D) Forsterite
- 74. Mineral clinozoisite belongs to:
  - (A) Feldspar group
  - (B) Epidote group
  - (C) Amphibole group
  - (D) Pyroxene group
- 75. Only one of the mid-oceanic ridge can actually be seen on land also:
  - (A) Mid-Indian Ocean Ridge
  - (B) 90 East Ridge
  - (C) Mid-Atlantic Ridge
  - (D) Carribean Ridge

# **ROUGH WORK**