1	esent stage of knowledge age of		(d)	Remains constant on both the
				sides
		6.	God	avari graben is an example of:
(b)			(a)	Exogeosyncline
(c)	The second secon		(b)	Autogeosyncline
(d)	6,500 million years		(c)	Zeugogeosyncline
Part	of earth starting from Mohorovicic		100000	Taphrogeosyncline
		_		117
		1.		dge shaped sector of oceanic crust
knov				arated by continental blocks which inated by rotation or pulling apart of
				tinental blocks is called :
(b)				Orocline
(c)	Mantle			
(d)	Crust		Hiji day	Sphenochasm
The	Shield Volcanoes are example of:		500	Seamount
(a)	Central eruption		(d)	Steinmann's Trinity
(b)	Fissure eruption	8.	Gra	vity anomalies over Island Arcs are:
(c)	Fumaroles		(a)	Intense Positive
(d)	Moraines		(b)	Intense Negative
In G	eological studies, a dome shaped		(c)	Feeble Positive
			(d)	Feeble Negative
(a)	Volcanic Neck	9	Thic	ckness of Mantle is:
(b)	Laccolith	198700		3,500 km
(c)	Nuee ardente			All Idems (Tarrellment) result (A
(d)	Moraines Caldera			2,900 km
From	m the location of the Midoceanic		d lin	porticular Item (question) w
			(d)	1,900 km swans) seacges
	hav or electropient and feet a few son	10.	Ear	thquakes of shallow focus range are
and a			cau	ised due to:
uidides			(a)	Normal faulting
10	constant on the other side		(b)	Reverse faulting
	earth (a) (b) (c) (d) Part Disc Gutte know (a) (b) (c) (d) The (a) (b) (c) (d) In G intru (a) (b) (c) (d)	earth is: (a) 3,500 million years (b) 4,500 million years (c) 5,500 million years (d) 6,500 million years Part of earth starting from Mohorovicic Discontinuity and extending upto Guttenberg discontinuity at 2,900 km is known as: (a) Inner Core (b) Outer Core (c) Mantle (d) Crust The Shield Volcanoes are example of: (a) Central eruption (b) Fissure eruption (c) Fumaroles (d) Moraines In Geological studies, a dome shaped intrusion is called a: (a) Volcanic Neck (b) Laccolith (c) Nuee ardente (d) Moraines Caldera From the location of the Midoceanic Ridge the age of the rock will: (a) Increase on both the sides (b) Decrease on both the sides (c) Increase on one side and remains	earth is: (a) 3,500 million years (b) 4,500 million years (c) 5,500 million years (d) 6,500 million years Part of earth starting from Mohorovicic Discontinuity and extending upto Guttenberg discontinuity at 2,900 km is known as: (a) Inner Core (b) Outer Core (c) Mantle (d) Crust The Shield Volcanoes are example of: (a) Central eruption (b) Fissure eruption (c) Fumaroles (d) Moraines In Geological studies, a dome shaped intrusion is called a: (a) Volcanic Neck (b) Laccolith (c) Nuee ardente (d) Moraines Caldera From the location of the Midoceanic Ridge the age of the rock will: (a) Increase on both the sides (b) Decrease on both the sides (c) Increase on one side and remains	earth is: (a) 3,500 million years (b) 4,500 million years (c) 5,500 million years (d) 6,500 million years (e) 5,500 million years (f) 6,500 million years (g) 7. Weather the starting from Mohorovicic Discontinuity and extending upto Guttenberg discontinuity at 2,900 km is known as: (a) Inner Core (b) Outer Core (c) Mantle (d) Crust (d) Crust (e) The Shield Volcanoes are example of: (a) Central eruption (b) Fissure eruption (c) Fumaroles (d) Moraines (d) Moraines (e) Volcanic Neck (f) Laccolith (g) Nuee ardente (g) Moraines Caldera (c) From the location of the Midoceanic Ridge the age of the rock will: (a) Increase on both the sides (b) Decrease on both the sides (c) Increase on one side and remains (d) Agoda (a) Canada (b) Canada (c) Cana

KR - 15A/22

	(c) Thrust faulting	(c) C ₁ Horizon
	(d) Gravity faulting	(d) D Horizon
11.	"The same physical processes and laws that operate today operated throughout geological time, although not	15. Valleys which show no apparent adjustment to structural or lithological control are called :
	necessarily always with the same	(a) Insequent valleys
	intensity as now" this statement is also	(b) Resequent valleys
	known as:	(c) Obsequent valleys -
	(a) Principle of Uniformitarianism	(d) Homoclinal valleys
	(b) Principle of Consistency(c) Principle of Sustainability	16. Which of the following is NOT an example of eolian sand deposits?
	(d) Ohm's Law	(a) Sand Shadows
12.	Many physical and chemical ways by	(b) Sand Undulations
	which the earth's surface undergoes	(c) Sand Sheets
	modification are called:	(d) Sand Plugs
	(a) Landforms	17. Subterranean cut-off and natural tunnels
	(b) Structures	are the examples of which of the following landforms?
	(c) Processes	(a) Aeolian
	(d) Orderly Sequences	(b) Marine
13.	Which one of the following is an	(c) Glacial
	example of endogenetic processes?	(d) Karst (d)
	(a) Gradation	18. In aerial photography the overlap
	(b) Degradation	between two adjacent photos is
	(c) Diastrophism	approximately equals to:
	(d) Infall of Meteorites	(a) 20%
14.	'Chemically decomposed drift' in a	(b) 40%
	weathering profile is referred in soil	(c) 60%
	profile as : Qsl vscQ (d)	(d) 80%
	(a) A Horizon	19. Which one of the following is the
	(b) B Horizon	spectral range (in Microns) used for

(3)

(Turn over)

	mass surveys and	delineation	of
wate	er bodies ?		
(a)	0.52 - 0.60		

- (b) 0.63 0.69
- (c) 0.76 0.90
- (d) 1.55 1.75
- 20. The EM region for Band Number 5 is:
 - (a) Visible Red
 - (b) Near Infrared
 - (c) Thermal Infrared
 - (d) Middle Infrared
- 21. Fold having inclined axial plane and both limbs dip in same direction at different angles is known as:
 - (a) Isoclinal fold
 - (b) Recline fold
 - (c) Overturned fold
 - (d) Recumbent fold
- 22. All else equal, the steeper the slope, the greater the :
 - (a) Shearing stress
 - (b) Friction
 - (c) Normal stress
 - (d) Shearing strength
- 23. Joints developed under compression are known as :
 - (a) Sheet joints
 - (b) Shear joints
- (c) Tensional joints
 - (d) Tectonic joints

- 24. For a larger number of materials, the relationship between stress and strain is linear and the behaviour is then called as:
 - (a) Hookean elasticity
 - (b) Atterberg elasticity
 - (c) Mohr's elasticity
 - (d) Boolean elasticity
- 25. Fold having smaller outer curvature and orthogonal thickness on the limb is less than that at the fold hinge, is:
 - (a) Class 1A fold
 - (b) Class 1B fold
 - (c) Class 1C fold
 - (d) Class 2 fold
- 26. In buckle folding developed by shear parallel to layer boundary, minimum strain occurs at:
 - (a) Hinge Zone
 - (b) Inflection Point
 - (c) Right Limb
 - (d) Left Limb
- 27. Younger series rest progressively on the older members of the underlying rock is called:
 - (a) Over step
 - (b) Over lap
 - (c) On lap
 - (d) Side lap

KR - 15A/22

(4)

Contd.

28. In a normal fault net slip is: 32. Hemihedral form in diploid, holohedral form is: Maximum along the dip (a) Maximum along the strike (b) (a) Pyritohedron Minimum along the dip (c) (b) Hexa-tetrahedron Maximum oblique to the strike (d) (c) Tetrahedron Assertion (A): In a normal fault hanging (d) Hexa-octahedron wall goes down with respect to foot wall. 33. The mineral generally have a Reasoning (R): Because the extension combination of positive and negative direction is horizontal parallel to dip tetrahedra is: direction. Tetrahedrite (a) A is correct but R is false (a) Zinc blende (b) A is false but R is correct Boracite (c) Both A and R are correct and R is (c) (d) Galena the correct explanation of A Both A and R are correct and R is 34. Mineral with trapezohedra form faces is : not the correct explanation of A (a) Leucite Assertion (A): Refraction of slaty (b) Galena cleavage does not occur in a fold. (c) Diamond Reasoning (R): This happens as the (d) Spinel layers vary in competence. Index symbol of scalenohedron is: 35. (a) A is correct but R is false 2020 (a) A is false but R is correct (b) (b) 2240 Both A and R are correct and R is (C) (C) 2131 the correct explanation of A (d) 3031 Both A and R are correct and R is (d) not the correct explanation of A Uni-axial negative mineral is: 36. In geniculate twin, twin plain is: (a) Quartz (a) 100 (b) Coesite (b) 001 Garnet 101 (c) (d) Calcite

201

(d)

- 37. If the extinction angle of Augite is 45°, then the extinction angle of Hornblende is around:
 - (a) 100°
 - (b) 92°
 - (c) 12°
 - (d) 40°
- 38. Pleochroic scheme of Hornblend is x-y yellow, y = blue-green and z = blue, then the absorption is:
 - (a) x < y < z
 - (b) x>y>z
 - (c) y>z>x
 - (d) z < y < x
- 39. Which of the following is lithium bearing mica?
 - (a) Lepidolite
 - (b) Biotite
 - (c) Muscovite
 - (d) Sevilite
- 40. In a twinkling calcite, R. g. of extra ordinary ray is 1.49, then the R. g. of ordinary ray is:
 - (a) 1.54
 - (b) 1.95
 - (c) 1.72
 - (d) 1.66
- 41. The Si₂O₇ units are packed together regularly in a crystal, with metal atoms lying between them. The mineral is:
 - (a) Olivine

- (b) Beryl manufacture and the second second
- (c) Augite
- (d) Melilite
- 42. Mineral diallage is a variety of :
 - (a) Quartz
- (b) Augite
 - (c) Diopside
 - (d) Garnet
- 43. Aragonite is a dimorphic form of :
 - (a) Aragonite
 - (b) Aucite
 - (c) Rhodochrosite
 - (d) Calcite
- 44. Which of the following is an acicular form mineral?
 - (a) Coesite
 - (b) Stishovite
 - (c) Natrolite
 - (d) Kyanite
- 45. Refraction indices of the Aegirine, alkali pyroxene are $\alpha = 1.763$ then β-γ are:
 - (a) 1.799 1.813
 - (b) 1.803 1.843
 - (c) 1.843 1.853
 - (d) 1.863 1.869
- 46. Specific gravity of labradorite is 2.67, then specific gravity of anorthite must be:
 - (a) 2.63
 - (b) 2.65

KR - 15A/22

(6)

Contd.

	(c)	2.74		(b)	Grade	
	(d)	3.14		(c)	Rank	
47.	Serp	pentine is an altered product of :		(d)	Opacity	
	(a)	Albite	52.	Hyd	rothermal process is associated	
	(b)	Anorthite		with	energy violation et al. (6)	
	(c)	Biotite		(a)	Hot fluids	
	(d)	Olivine		(b)	Cold fluids	
48.	Albit	e-orthoclase intergrowth is known		(c)	Viscous magmas	
	as:	ALL ACTOR OF THE REAL PROPERTY AND ADDRESS OF THE PARTY O		(d)	Mixing of magmas	
	(a)	Graphic	53.	The	commonest copper bearing ore	
	(b)	Perthite		min	eral is:	
	(c)	Carona		(a)	Azurite	
	(d)	Intersertal		(b)	Chalcopyrite	
49.	Exti	nction angle of oligoclase is zero,		(c)	Native Copper	
10.		extinction angle of Bytownite is		(d)	Bornite	
	around:		54.	Chromite deposits are abundant in		
	(a)	10°			ch of the following states?	
	1200			(a)	Karnataka	
	(b)	20°		(b)	Rajasthan	
	(c)	-20°		(c)	Meghalaya	
	(d)	50°		(d)	Odisha	
50.	Moh	ns hardness of kyanite on edges and	55.	The	e Huth gold deposits are of :	
	face	es are : 100000 1000000 100000		(a)	Lateritic type	
	(a)	1 and 4		(b)	Placer type	
	(b)	4 and 7		(c)	Lode type	
	(c)	7 and 4		(d)		
	(d)	3 and 5	56.	10/1	nich one of the following is a ceramic	
51.	The	e metal content of an ore is			neral?	
	ехр	pressed as :		(a)		
	(a)	Tenor		(-)		
KR	- 15/	A/22	(7)		(Turn over)	

62.

In a granitic rock, you have found

(b)

Kaolinite

perthite. You would best explain the (c) Quartz crystallization of that granite under: (d) Calcite Eutectic condition 57. The other use of diamond is: (b) Subsolvus condition As a refractory mineral (c) A condition that involves a (b) As an abrasive reaction between alkali and Asaflux (c) plagioclase feldspar As a decarboniser (d) None of the above In terms of BTU which is the poorest 58. 63. An ultramafic rock is found to be quality coal? composed of almost equal proportions Peat (a) of ortho-and clinopyroxene. Following (b) Anthracite Streckiesen's classification, the rock (C) Bituminous Coal should be designated as: (d) Lignite (a) Dunite (b) Harzburgite Pitchblende is an important ore of: (c) Websterite (a) Zinc (d) Wehrlite Copper 64. Phacoliths are: (c) Titanium Pipe like bodies that vertically cut across host country rocks (d) Uranium Lens-shaped concordant igneous Ore reserve estimation is done by using: 60. bodies found at crests and Drilling data troughs of folds Pitting done Saucer-shaped sunken igneous (C) (C) Trenching data bodies (d) Reconnaitory data Up-arched igneous bodies The plutonic equivalent of Andesite is: In a gabbro, you have noticed corona (a) Syenite texture. The corona testure has been (b) Granite formed by: (c) Pyroxenite Exsolution phenomenon in (a) (d) Diorite pyroxene KR - 15A/22 (8)

Contd.

- (b) Simultaneous crystallization of olivine and pyroxene
- (c) Failure of reaction (along discontinuous arm of Bowen's Reaction series) between crystal and magma
- (d) None of the above
- 66. Norms and modes of igneous rocks are described as :
 - (a) Norms and modes are products of fractional crystallization of a basic magma
 - (b) Modes are theoretically possible minerals based on chemical analyses while norms refer to actually existing minerals
 - (c) Norms are theoretically possible minerals based on chemical analyses while modes refer to actually existing minerals
 - (d) None of the above
- 67. Normal zoning in plagioclase is represented by:
- (a) Ca-content in successive rims
 - (b) Ca/Na ratios remain same in successive rims of plagioclase
 - (c) Sodic core and progressively calcic rims
 - (d) Calcic core and progressively sodic rims

- 68. In Diopside-Anorthite system (at 1 atmosphere, dry) the Degree of Freedom (F) at eutectic point is:
 - (a) 1
 - (b) 3
 - (c) 2
 - (d) 0
- In Bowen's Reaction Series, the field of spinel is located :
 - (a) At the top-most part of the reaction series
 - (b) At the lower-most part of the reaction series
 - (c) In between amphibole and biotite
 - (d) In between olivine and pyroxene
- 70. Ophitic texture is:
 - (a) A type of texture where plagioclase and pyroxene broadly are of same size
 - (b) A variant of prophyritic texture where phenocryst is made up of plagioclase
 - (c) A special type of poikilic texture where plagioclase laths are enclosed by relatively bigger pyroxene crystal
 - (d) None of the above
- 71. Granule refers to sedimentary particle whose grain size lies between:
 - (a) 16 and 8 mm
 - (b) 4 and 2 mm

(Turn over)

(c) 2 and 1 mm (c) Oosparite (d) < 1 mm (d) **Oomicrite** The sediment produced by chemical Orthoquartzite is: weathering of granite is commonly A metamorphic rock with > 25% known as: orthoclase (a) Cobble A metamorphic rock with > 95% (b) Sand quartz (c) Silt A sedimentary rock with > 25% (d) Clay orthoclase 73. Herringbone cross stratification is the A sedimentary rock with > 95% characteristic of: quartz Abyssal environment 78. In arkose: Neritic environment (a) K-feldspar > Plagioclase Tidal environment (b) Plagioclase > K-feldspar Littoral environment K-feldspar = Plagioclase 74. Antidunes are formed when: (d) None of the above Flow velocity is high The matrix of packstone is: 79. Flow velocity is moderate (a) Sand Flow velocity is low Silt (b) (d) There is no flow (c) Mud 75. The term mud refers to : (d) Clay (a) Mixture of pebble and granule (b) Mixture of granule and sand 80. The bedding in which isolated thin drapes of mud occurs within cross (c) Mixture of sand and silt laminae of sand and silt is called: (d) Mixture of silt and clay (a) Tabular bedding 76. The sand sized carbonate rock in which (b) Flaser bedding oolites > 25% and sparite > micrite is False bedding known as: (d) Lenticular bedding (a) Oosparudite (b) Oomicrudite

81. In a progressive metamorphic

- sequence, the Oligoclase isograd in a metabasite marks the entry from :
 - (a) Greenschist to epidote amphibolite facies
 - (b) Greenschist to blueschist facies
 - (c) Amphibolite to granulite facies
 - (d) Granulite to eclogite facies
- 82. The mineral assemblage that is diagnostic of eclogite facies metamorphism in metabasic rocks is:
 - (a) Orthopyroxene + Clinopyroxene + Garnet + Plagioclase + Quartz
 - (b) Garnet + Clinopyroxene + Plagioclase + Quartz
 - (c) Garnet + Clinopyroxene + Quartz
 - (d) Orthopyroxene + Plagioclase + Clinopyroxene + Quartz
- 83. Which one of the following sequence of mineral assemblages in metapelites correctly indicates a progressive metamorphic sequence of increasing metamorphic grade?
- (a) Garnet + Muscovite + Biotite + Chlorite + Quartz → Staurolite + Biotite + Garnet + Muscovite + Quartz → Biotite + Sillimanite + K-feldspar + Garnet + Quartz → Garnet + Kyanite + Muscovite + Biotite + Quartz
 - (b) Biotite + Sillimanite + K-feldspar + Garnet + Quartz → Garnet + Kyanite + Muscovite +

- Biotite + Quartz → Staurolite +
 Biotite + Garnet + Muscovite +
 Quartz → Garnet + Muscovite +
 Biotite + Chlorite + Quartz
- (c) Staurolite + Biotite + Garnet +

 Muscovite + Quartz → Garnet +

 Muscovite + Biotite + Chlorite +

 Quartz → Garnet + Kyanite +

 Muscovite + Biotite + Quartz →

 Biotite + Sillimanite +

 K-feldspar + Garnet + Quartz
- (d) Garnet + Muscovite + Biotite + Chlorite + Quartz → Staurolite + Biotite + Garnet + Muscovite + Quartz → Garnet + Kyanite + Muscovite + Biotite + Quartz → Biotite + Sillimanite + K-feldspar + Garnet + Quartz
- 84. Which one of the following polymorphic transformations is likely to be the product of shallow contact metamorphism?
 - (a) Kyanite → Sillimanite
 - (b) Calcite → Aragonite
 - (c) Andalusite → Sillimanite
 - (d) β-quartz → Coesite
- 85. The mineral assemblage that is produced by granulite facies metamorphism of impure marly (calcareous) sediments is:
 - (a) Wollastonite + Scapolite + Calcite + Clinopyroxene + Quartz
 - (b) Garnet + K-feldspar + Sillimanite + Cordierite + Quartz

- (c) Tremolite + Calcite + Quartz +

 Dolomite + Diopside
 - (d) Forsterite + Diopside + Dolomite + Talc + Enstatite
- 86. The main agents of metamorphism that can produce a "Snowball Garnet" are :
 - (a) Lithostatic Pressure and Temperature
 - (b) Deviatoric (directed) Pressure and Temperature
 - (c) Lithostatic and Deviatoric (directed) Pressures
 - (d) Temperature, Lithostatic and Deviatoric (directed) Pressures
- 87. The metamorphic facies that indicates the maximum thermal gradient during metamorphism is:
 - (a) Sanidinite
 - (b) Granulite
 - (c) Greenschist
 - (d) Blueschist
- 88. Thermal metamorphism of shale produces:
 - (a) Cataclasite
 - (b) Gneiss
 - (c) Hornfels
 - (d) Mylonite
- 89. Paired metamorphic belt shows the occurrence of the following pair of

- metamorphic facies series of the same age next to one another at:
 - (a) High pressure-low temperature and medium pressure-medium temperature
 - (b) Low pressure-high temperature and medium pressure-medium temperature
 - (c) High pressure-high temperature and low pressure-high temperature
 - (d) Low pressure-high temperature and high pressure-low temperature
- 90. In a Barrovian metamorphic sequence, the second sillimanite isograd is marked by which mineral reaction?
 - (a) Kyanite → Sillimanite
 - (b) Muscovite + Quartz → K-feldspar + Sillimanite + H₂O
 - (c) Staurolite + Muscovite + Quartz → Garnet + Sillimanite + Biotite + H₂O
 - (d) Garnet + K-feldspar + Melt → Biotite + Sillimanite + Quartz
- 91. Which of the following has sinistrial coiling?
 - (a) Turritella
 - (b) Planorbis
 - (c) Voluta
 - (d) Murax

92.	Wh	ich of the following has no bedica	97.	Dim	nyarian fossil is:		
	ope	ning? will be dot we want to		(a)	Pecten Sandarda (5)		
	(a)	Terebratula		(b)	Ostrea automid (d)		
	(p)	Productus		(c)	Cardita and managed and		
	(c)	Lingula		(d)	Exogyra		
	(d)	Rhynchonella	98.	Tho	ose fossils which have short		
93.	Wh	en the septal neck project towards			ological range and wide geo-		
	the	protoconch, the condition is known	n	graphical distribution is called as:			
	as:			(a)	Toto Fossil		
	(a)	Retrosiphonate		(b)	Trace Fossil		
	(b)	Siphuncle		(c)	Derived Fossil		
	(c)	Probiphonate		(d)	Index Fossil		
	(d)	None of the above	00	· ·			
94.	The	suture line cuts at the margin behind	99. I		alik is mainly known for :		
	the	genal angle is called :		(a)	Cephalopous		
	(a)	Proparian suture line		(b)	Trilopites		
	(b)	Opisthoparian suture line		(c)	Vertebrates		
	(c)	Gonatoparian suture line		(d)	None of the above		
	(d)	None of the above	100.	Ptilo	ophyllum is found in :		
95.	Ven	tral valve is larger in :		(a)	Lower Gondwana		
	(a)	Pecten		(b)	Carboniferous (d)		
	(b)	Rhynchonella		(c)	Late Cretaceous		
	(c)	Arca		(d)	Upper Gondwana		
	(d)	Trigonia	101.	Wh	ich of the following has an		
96.	Mad	dreporic plate is found in :			skeleton?		
	(a)	Ammonoids		(a)	Man aggaritations (s)		
	(b)			(b)	Horse		
	(c)	Grabtolites anal (a)		(c)	Mollusc		
	(d)	Echinoids		(d)	None of the above		
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MIL.	- 15A	V Lake	(13)		(Turn over)		

102.	Nod	es and nodules are found in :	107.		ata in two different areas are said to		
	(a)	Perisphinctes			correlatable if they:		
	(b)	Nautilus		(a)	Are synchronous		
	(c)	Belemnites		(b)	Have similar lithology		
	(d)	Acanthoceras		(c)	Occupy same position in sequence		
103.	Foss	sils are not found in :		(d)	Have same structures above and below		
	(a)	Granite					
	(b)	Lime stone	108.		basic and fundamental unit of ostratigraphic classification is:		
	(c)	Sand stone		(a)	Supergroup		
	(d)	Shale		(b)	Group		
104	White	ch of the following has globular shell	2	(c)	Formation		
107.	(a)	Physa	5	(d)	Member		
	(b)	Nautica	109.	9. Permian / Triassic transition datur			
	(c)	Trochus		plar	ne is placed at:		
				(a)	65 m. y.		
	(d)	Cerithium		(b)	230 m. y.		
105.	Whi	ch of the following has spine	У	(c)	2,500 m. y.		
	test	? — tapet a numer kicker ou		(d)	320 m. y.		
	(a)	Cidaris	110.	Bios	stratigraphic zone delineated on the		
	(b)	Micraster		basis of maximum development of tax			
	(c)	Schizaster			Epibole		
	(d)	Clypeaster		(a)			
106	Low	of Faunal and Floral succession	_	(b)	Acme Zone		
100.		given by :	n	(c)	Peak Zone		
			-2000	(d)	All of the above Inogenball 88		
	(a) (b)	James Hutton William Smith	111.		onostratigraphic equivalent of ochronologic Unit Epoch is:		
	(c)	Charle's Lyell		(a)	Stage *** Stage ***		
	(d)	None of the above		(b)	Series abiomited as '		
KR-	15A	/22	(14)		Contd.		

(c) System Above Panjal traps (b) (d) Erathem Between the different flows of (C) traps 112. Eparchaean unconformity is between: Palaeogene / Neogene All of the above (d) Archaean / Proterozoic 117. Middle Gondwana is characterized by: Palaeoproterozoic / Meso-Glossopteris Flora (a) proterozoic Dicroidium / Thinfeldia Flora (b) Tertiary / Quaternary Ptilophyllum Flora (c) 113. Krol / Tal succession constitute one of (d) Rhacopteris Flora the boundary stratotype for: (a) Permo / Triassic boundary 118. The lower part of Semeri Series in Sone Precambrian / Cambrian Valley is represented by: boundary Basal Stage (a) (c) Cretaceous / Tertiary boundary Khenjua Stage (b) Palaeogene / Neogene boundary Rohtas Stage (c) 114. The oldest litho-unit of Dharwar (d) Procellanite Stage Province is referred to as: (a) Closepet Granite The uppermost litho-unit of Gondwana Babubudan Group Sequence is: (c) Sargur Schists Jabalpur Formation (a) Chitardurga Group Karharbari Formation (b) 115. The basal part of Gondwana sequence (c) Mahadeva Formation is marked by: Umia Formation (d) Talchir Boulder Beds 120. The basal part of Siwalik Group is Balaini Boulder Beds referred to as: **Boulder Conglomerates** (c) (a) Pinjore Formation (d) None of the above Chinji Formation (b) 116. Gangmopteris beds in Palaeozoic Kamlial Formation (c) succession of Kashmir are located at : (a) Below Panjal traps Nagari Formation (d)

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Q. No.	Answer	Q. No.	I A	S Q: No.	120			-
71.	b	Q.81	(a)	91.	b Ans	1.4	Q. M.	Ans
72.	d	Q.82	(c)	92.	۵ .		Carlotte Carlotte	
73.	С	Q.83	(d)	93.	عه		106 107	b a
74	a	Q.84	(c)	૭ ૫٠	. C.		108 109	d .
75.	d	Q. 85	(a)	95.	ь		110 111	d
76.	c	Q.86	(d)	96. 97.	d C		112	a b
77.	d	Q.87	(a)	98.	ط		113 114	b c
78.	а	Q.88	(c)	99.	ر ط. ا		. 115 116	a d
9.	c	Q.89	(d)	/p] .	۷.,	13	117	ь
0.	b	Q.90	(b)	102.	·a!		118 119	a d
	10		-	103.	· ja		120	С
				104.	b		0	96-
				105.	a		Ø.	master)