(b) & Mesozoic

(a) Palacezo

tor Acid mode

The best building stone is

Kewrite correctly (if necessary)

thve inc name of one common

profest another resident

## Arrange the three main geome 2016 endivision to find it is ordered

## **GEOLOGY**

(Theory)

Full Marks: 70

Pass Marks: 21

Time: Three Hours and \*Fifteen Minutes

(\*15 minutes are given as extra time for reading questions)

All the questions are compulsory.

The figures in the right margin indicate full marks for the questions.

Select the most appropriate answer of the following (Q. No. 1-4)

 When bedded sedimentary rocks overlie non-bedded igneous or metamorphic rocks, the type of unconformity is known as

haults are formed / produced-by-tensional as well auceorgy established on

- (a) Non-conformity
- (b) Angular unconformity

  deposit but a new part of sold with blot a to notice out omail.
- (c) Disconformity
- (d) Overlap

2.	Permian period belongs to
91/8	(a) Pre-cambrian era
	(b) Mesozoic era
	(c) Cenozoic era
M.	(d) Palaeozoic era (Cross III) programmy of the Which
3.	An igneous rock containing less than 40% of silica belongs to
	(a) Acid rock to write one point of difference between their and pant to
	(b) Basic rock and the state of
	(c) Intermediate rock
	(d) Ultrabasic rock
4.	The best building stone is
	(a) Conglomerate, activabilish of the resistant statement received with recision
10	(b) Rhyolite of their surrow about visingminor bobbed and W
ala	(c) Schist
	(d) Granite
5.	Name the section of a fold which lies between crest and trough.
6.	Rewrite correctly (if necessary)
	Faults are formed / produced by tensional as well as compressional forces.
7.	Give the name of one common rock found is the Barail Formation of Manipur.
22 (	eo (T) 19/16 - 2 - Contd.

8.	Suggest one common sedimentary rock which hardly records fossil.	1
9.	Arrange the three main geomorphic subdivisions of India in order of the descending age.	eir 1
1000	noning out of another systems of the second that was all planes I	
10.	which are exclusively composed of mineral quartz.	
2000	are that and gently dipping, Give your answers in one or two senten	
11.	Mention one metamorphic rock which has similar composition with grani	te.
	Define 'joint' and write one point of difference between fault and join	4
12.	Select the igneous, sedimentary and metamorphic rock of the following	
12.		1
	limestone, granite, marble, slate, conglomerate, basalt.	土
13.	Give the name of one good aquifer found in Manipur.	1
	time span of capitalist.	
14.	Find one important reason for the cause of soil erosion in the hills	of
Jak	Manipur. mod agreem on to sman out reague on the little of the	1
8	bayingt at	*
44	Control of the Contro	120
15.	Write short answers on graded bedding.	2
6	Short and Spanish State and Market in about the State of	
16.	Distinguish between 'contour line' and 'contour interval' in three to for	ur
583	BOTH THE STREET SHEET SHEET SHEET SHEET STREET SHEET STREET SHEET	2
	grained though both have the same mineralogical composition	
17	Description of the Late of the Control of the Contr	2
17.	Draw a neat labelled diagram to show columnar joint.	2
18.	Write short answer on Archaean rocks.	2
	diffusion in the unselect in straige-country control francia. The second second	
19.	List out the different criteria adopted in the correlation of widely locate	A
1	List out the different criteria adopted in the correlation of widely locate	
5	strata and mention the most authentic one. To aldren to annexation	2
		10
20.	Give the two reasons of classifying Gondwana system into divisions -	-375
2	a three fold and a two-fold.	2

21.	Draw a labelled diagram to show the occurrence of an index fossil an a non-index fossil.	2
22.	Define 'Ophitic texture'. Subdivision of main geomorphic subdivisions age descending age.	2
23.	Write short answers on any two effective methods for prevention of Landslide in the hill areas of Manipur.	of 2
24.	Identify the geological method used for prospecting of ore bodies which are flat and gently dipping. Give your answers in one or two sentences only.	es
25.	One of two delitered to the transfer of the tr	in 3
26.	Illustrate the 'dip' and 'strike' of a bed.	3
27.	Write the sub-divisions of geological Time Scale with the approximatime span of each era.	te 3
28.	Define 'magma' and suggest the name of the magma from which basa is derived.	lt 3
29.	Explain the mode of formation of sedimentary rocks in aquat environment. Give your answer in about ten sentences.	3
30.	Justify your answer why 'rhyolite' is fine grained while 'granite' is coars grained though both have the same mineralogical composition.	se 3
31.	Explain the terms 'porosity' and 'permeability' associated with aquifer underground water.	in 3
32.	Describe the Tertiary stratigraphic succession of Assam or of Manipu	ır. 5
33.	Explain briefly the mineralogical, structural, textural and mode occurrence of marble or of gabbro.	300
34.	Define 'Soil erosion' and write any two preventive measures of soil erosio	n. 5