

महाराष्ट्र शासन

शालेय शिक्षण व क्रीडा विभाग

राज्य शैक्षणिक संशोधन व प्रशिक्षण परिषद, महाराष्ट्र

७०८ सदाशिव पेठ, कुमठेकर मार्ग, पुणे ४११०३०

संपर्क क्रमांक (०२०) २४४७ ६९३८

.....

E-mail: evaluationdept@maa.ac.in

Question Bank

Standard: 12th

Subject :- Geology

March 2021

सूचना

- फक्त विद्यार्थ्यांना प्रश्नप्रकारांचा सराव करून देण्यासाठीच
- २. सदर प्रश्नसंचातील प्रश्न बोर्डाच्या प्रश्नपत्रिकेत येतीलच असे नाही याची नोंद घ्यावी.

STD 12 -2021

QUESTION BANK

(<u>Note-</u> Students must practice answering the Questions given in the Exercise, at the end of every Chapter, in the Text- Book)

CHAPTER-1

THE DYNAMIC EARTH

SECTION-B

Attempt any EIGHT of the following questions:-

(2 Marks each.)

- 1. Write a short note on core of the Earth.
- 2. Distinguish between continental crust and oceanic crust (2 points).
- 3. What is lithosphere?
- 4. What is asthenosphere?
- 5. Enlist two evidences that support continental drift theory.
- 6. Explain divergent plate boundaries.
- 7. Describe convergent plate boundaries.
- 8. What are Transform fault boundaries?
- 9. How are fold mountains formed? Give an example.
- 10. Himalayas & Sahayadris are two different types of mountains. Give reasons.

SECTION- C

Attempt any EIGHT of the following questions:-

(3 Marks each)

- 1. What are plates? Explain convergent plate boundaries.
- 2. Describe the term 'plates'. Explain Transform fault boundaries giving an example.
- 3. What is a plate? Explain divergent plate boundaries.
- 4. Enumerate the evidences used in support of continental drift hypothesis.
- 5. Name and give examples of different classes of plate boundaries.
- 6. Describe divergent plate boundaries with a suitable example.
- 7. Write a note on transform fault boundaries giving an example.
- 8. Explain the formation of volcanic mountains. Give an example.
- 9. Name and give examples of any three types of mountains.
- 10. What are fault-block mountains? Give a suitable example.

PETROLOGY

SECTION- A

Q1.Select and write the correct answer :-	(1 Mark each)
1. Granite and rhyolite have the same	
a) texture.	
b) cooling history.	
c) composition.	
d) structural deformation.	
2. Rocks rich in mafic minerals are called	
a) Leucocratic.	
b) Melanocratic.	
c) Mesocratic.	
d) Hyper-melanocratic.	
3. Essentially all sedimentary deposits show evidence of	
a) fossils.	
b) stratification.	
c) ripple marks.	
d) mud cracks.	
4. The rock formed by thermal metamorphism of Sandstone is	
a) Slate	
b) Quartzite	
c) Marble	
d) Gneiss.	
5. a) Examples of discordant igneous bodies are sill and lopolith .	
b) Examples of discordant igneous bodies are sill and batholith	
c) Examples of discordant igneous bodies are batholith and dyke.	
d) Examples of discordant igneous bodies are lopolith and dyke.	

6. A) Leucocratic	i) Dunite
B) Mesocratic	ii) Gabbro
C) Melanocratic	iii) Syenite
D) Hyper-melanocratic	iv) Granite
a) A—iv, B—iii, C—ii, D—i.	
b) A—iii, B—ii, C—i, D—iv.	
c) A—ii, B—i, C—iv, D—iii.	
d) A—i, B—iv, C—iii, D—ii.	
7. a) Pegmatite is an igneous, plutonic, acidic rock.	
b) Pegmatite is an igneous, hypabyssal, acidic rock.	
c) Pegmatite is an igneous, plutonic, basic rock.	
d) Pegmatite is an igneous, hypabyssal, basic rock.	
8. a) Breccia is a residual deposit.	
b) Breccia is an argillite rock.	
c) Breccia is an arenite rock.	
d) Breccia is a rudite rock.	
9. The rock which is suitable for foundation is	
a) Marble	
b) Limestone.	
c) Slate	
d) Quartzite.	
10) The metamorphic rock developed as a result of the h	nighest intensity of
metamorphism is	
a) Shale	
b) Schist	
c) Phyllite	
d) Gneiss	

Q.2. Answer the following questions :-(1 Mark each) 1) What is a rock? 2) What is meant by the term 'aphanitic'? 3) How are essential minerals important in igneous rocks? 4) Where do the hypabyssal rocks consolidate? 5) What is the shape of a laccolith? 6) Which class of rocks consists of sand-sized grains? 7) Name the types of metamorphism. 8) Which rocks are appropriate for roofing purposes? **SECTION-B** Attempt any EIGHT of the following questions:-(2 Marks each) 1. Name the agents of metamorphism. 2. Which special property of rocks is a prerequisite for use in flooring? Give an example. 3. How is marble formed? 4. What is clastic texture? 5. Shale belongs to which class of sedimentary rocks? 6. What are rudites in sedimentary rocks? 7. Write a note on phacolith. 8. How is ropy structure formed? 9. What is meant by pillow structure? 10. What are secondary minerals? Give examples. 11. What are extrusive igneous bodies? Give an example. 12. How does vesicular structure result in igneous rocks? **SECTION-C** Attempt any EIGHT of the following questions:-(3 Marks each) 1. Give the classification of igneous rocks based on SiO₂ percentage.

2. What is a batholith?

3. Describe Sill as an intrusive igneous body.

4. Explain the term 'primary minerals' in igneous rocks.

- 5. How does granulose structure develop in metamorphic rocks?
- 6. What are non-clastic rocks? Give their types with one example each.
- 7. Describe ripple marks in sedimentary rocks.
- 8. How are non-transported deposits formed? Give an example.
- 9. Explain the formation of slaty cleavage in metamorphic rocks.
- 10. Describe thermal or contact metamorphism.
- 11. How is schistose structure formed?
- 12. Explain Dyke as an intrusive igneous body.

SECTION-D

Attempt any THREE of the following questions:-

(4 Marks each)

- 1. List the major types of igneous textures and describe them.
- 2. Classify igneous rocks based on mode of occurrence, giving one example of each class.
- 3. What are clastic rocks? Give the different classes with one example each.
- 4. Describe dynamothermal metamorphism.
- 5. Write a note on Gneissose structure.

PALAEONTOLOGY AND STRATIGRAPHY

SECTION- A

SECTION- A	
Q1.Select and write the correct answer:-	(1 mark each)
1. Era of Standard geological time scale which contains the most recent or mo	odern life
is theEra.	
a) Cenozoic b) Mesozoic c) Paleozoic d) Late Proterozoic.	
2. Which of the following applies to the standard geologic time scale?	
a) It was developed through radioactive dating.	
b) It is based on superposition and faunal succession.	
c) It is divided into periods of equal length.	
d) It was developed in India.	
3. A) James Hutton i) Term fossil	
B) Steno ii) Faunal Succession.	
C) William Smith iii) Order of superposition.	
D) Georgius Agricola iv) Uniformitarianism.	
a) A—iv, B—iii, C—ii, D—i.	
b) A—i ,B—ii, C—iii ,D—iv.	
c) A—ii, B—iii ,C—iv ,D—i.	
d) A—iii, B—iv, C—i, D—ii.	
4. Dinosaurs diversified inperiod.	
a) Paleogene b) Cretaceous c) Jurassic d)Triassic	
5) Gold and chromite deposits belong to	
a) Dharwar Supergroup b) Vindhyan Supergroup	
c) Cuddapah Supergroup. d) Gondwana Supergroup.	
6) Coal seam beds occur in	
a) Dharwar Supergroup b) Vindhyan Supergroup.	

c) Cuddapah Supergroup d) Gondwana Supergroup.

7) Mammals diversified in Era.						
a) Cenozoic b) Mesozoic c) Paleozoic	d) Late Proterozoic.					
B) Mesozoic and Cenozoic Eras are subdivided intoperiods.						
a) two b) three c) five d) six						
9) Cuddapah Supergroup of rocks						
a) exhibit abundant evidence of life						
b) are non -fossiliferous.						
c) are granitic in composition						
d) are composed of basalts						
0) Organic walled microfossils like pollen, spore	es, seeds etc are studied under the branch					
of						
a) Palynology b) Palaeozoology c) Palaeo	obotany d) Paleoichnology.					
Q2. Answer the following questions:-	(1 mark each)					
1. What are imprints?						
2. What are trace fossils?						
3. What are fossils?	3. What are fossils?					
4. What are index fossils?						
5. Give the economic importance of Cenozoic	rocks.					
6. Rocks of which Supergroup of Peninsular Ir	ndia contain diamonds?					
7. What is a marker or key horizon?						
8. Which lithostratigraphic Supergroup of Peni	insular India is best exposed in the form of					
a crescent-shaped outcrop?						
SECTION -	-c					
Attempt any EIGHT of the following question	s:- (3 Marks each)					
1. Enlist the prerequisites of fossilization.						
2. Describe the process of carbonization.						
3. What is an index fossil? Give an example.						

4. Write a note on principle of faunal succession.

- 5. Give the economic importance of Dharwar Supergroup.
- 6. Write a note on fossils of Gondwana Supergroup.
- 7. Name the periods of Paleozoic Era.
- 8. Describe the principle of Uniformitarianism.
- 9. Describe the lithology of Deccan Volcanic Province.
- 10. What is meant by Order of Superposition?
- 11. How are fossils useful in exploration of petroleum and coal reserves?
- 12. Explain Casts and Moulds as a mode of preservation of organisms for fossilization.

SECTION-D

Attempt any THREE of the following questions:-

(4 marks each)

- 1. Describe any four uses of fossils.
- 2. Describe the Deccan Volcanic Province with reference to its age and economic importance.
- 3. What is Petrification? Give an example.
- 4. Discuss the method of Lithological correlation.
- Describe the Cuddapah Supergroup with reference to lithology and economic importance.

STRUCTURAL GEOLOGY

SECTION- A

(1 Mark each)

Q1. Choose the correct alternative and write the answer:-

1. Cracks or fractures in the Earth's crust along which there has been slipping or displacement of rocks are called							
a. Folds	a. Folds b. Faults c. Joints d. Unconformities						
2. Wavy undu	lations or bend	s developed in	rocks are calle	èd			
a. Joints	b. Unconformi	ties c. Fold	ds	d. Faults			
3. A set of par	rallel normal fau	ults which occu	ır at regular inte	ervals gives rise to afault.			
a. Normal	b. Reverse	c. Step	d. Horst				
4. Surface of	erosion or non-	deposition that	t separates two	series of beds is termed as			
a. Anticline	b. Graben	c. Oblique	d. Unconform	ity			
5. A joint which	h is parallel to	the dip directio	on of adjacent b	eds is calledjoint.			
a. Diagonal	b. Dip	c. Strike	d .Bedding				
6. In a symmetrical syncline, the two limbs							
a. dip towards each other by the same angle.							
b. dip away from each other by different angles.							
c. dip towards	c. dip towards each other by different angles.						
d. dip away fr	om each other	by the same a	ngle.				
7. a. A reverse	e fault is a resu	It of tensional t	forces in which	hanging wall is displaced downwards.			
b. A reverse	e fault is a resu	It of compress	ional forces in v	which footwall is displaced upwards.			
c. A reverse upwards.	c. A reverse fault is a result of compressional forces in which hanging wall is displaced upwards.						
d. A reverse	e fault is a resu	It of tensional t	forces in which	footwall is displaced downwards.			
8. A. Bedding	j joint		i. convex dov	wnwards.			
B. Angular	unconformity		ii. parallel to b	pedding plane.			

	C. Synclin	е		i	ii. low	dip angles.	
	D. Thrust fault		iv. older & younger beds are not parallel.		rallel.		
	a. A-iii,	B-i,	C-ii,	D-iv			
	b. A-iv,	B-ii,	C-iii,	D-i			
	c. A-ii,	B-iv,	C-i,	D-iii			
	d. A-i,	B-iii,	C-iv,	D-ii			
9.	At Gilbert H	Hill, Mur	mbai, co	olumnar joints are	well	exhibited inrocks.	
1.	Granite	2. Bas	alt	3. Sandstone		4. Marble	
10	. The part b	etween	the cre	st of one fold and	the t	rough of the adjacent fold is i	ts
1	. Crest	2. Trou	ugh	3. Axis 4	. Limb)	
				SEC	TION	- C	
Α	ttempt any	EIGHT	of the f	ollowing question	ıs:-		(3 Marks each)
1.	Describe ar	nd draw	a diagr	am of an Angulai	r unco	onformity.	
2.	What is a B	edding	joint?				
3.	Write a note	e on Dia	agonal j	oints.			
4.	What is a H	Horst ar	nd Grab	en? Draw a suita	ble dia	agram.	
5.	Describe a	Thrust f	fault wit	h a neat diagram			
6.	How is mov	ement :	along th	e fault plane mea	asure	d? Explain.	
7.	Describe th	e differe	ent part	s of a fault.			
8.	What are S	trike slip	o faults?	•			
9.	Write a note	e on an	Anticlin	e and draw a lab	eled c	liagram.	
10	10. What are Symmetrical folds?						
11	11. Enlist and describe parts of a fold.						
12	. Describe a	a Syncli	ne.				
				SEC	TION	l- D	
Att	empt any T	HREE	of the fo	ollowing questions	s:-		(4 Marks each)
1.	Describe Disconformity and Nonconformity, giving diagrams of each.						

2. Explain Columnar joints and give an example.

- 3. What are Normal faults and Reverse faults? Draw diagrams for both.
- 4. Write a note on Asymmetrical folds, giving their types with a diagram.
- 5. What is meant by Strike and Dip of beds and name the tool used to measure it?

ECONOMIC MINERALS AND ROCKS

SECTION- A

Q1. Choose the correct a 1.a) Manganese ore m	Iternative and write the a inerals are Pyrolusite an		(1 Mark each)				
b) Manganese ore m	inerals are Psilomelane	and Haematite.					
c) Manganese ore minerals are Psilomelane and Magnetite.							
d) Manganese ore m	inerals are Pyrolusite an	d Psilomelane.					
2.a) The important ores	s of Copper are Chalcop	yrite, Malachite, Cupri	te and Native copper.				
b) The important ores	s of Copper are Chalcop	yrite, Malachite, Cupri	te and Sphalerite.				
c) The important ores	s of Copper are Chalcopy	yrite, Malachite, Cuprit	te and Galena.				
d) The important ores	s of Copper are Chalcop	yrite, Malachite, ,Cupr	ite and Monazite.				
3. A) Kyanite	i) Al ₂ (Si ₂ O ₅)OH ₄						
B) Bauxite i	ii) Al ₂ SiO ₅						
C) Kaolin i	ii) KAISi ₃ O ₈						
D) Orthoclase i	v) Al ₂ O ₃ .2H ₂ O.						
a) A-iv, B-iii, C-ii	, D-i.						
b) A-iii, B-i, C-iv	/, D-ii.						
c) A-ii, B-iv, C-i,	D-iii.						
d) A-i, B-ii, C-ii	i, D-iv						
4. Which mineral is	known as 'Abhraka' in a	yurveda?					
a) Malachite.	b) Haematite.	c) Mica.	d) Galena.				
5. The zinc ore mine	eral is						
a) Sphalerite.	b) Monazite.	c) Zircon.	d) Cinnabar.				
6) Which of the follo	owing is NOT a mineral in	n the true geological s	ense?				
a) Petroleum.							
b) Quartz.							
c) Bauxite.							
d) Mica.							

7) Garnet is us	ed as					
a) source of th	orium and rare Earths.					
b) abrasive and	d gemstone.					
c) raw materia	l in ceramic and electri	ical industries.				
d) raw material	in refractory and medi	icine industries.				
8) Cherry red s	treak is a diagnostic te	est of—				
a) Galena						
b) Magnetite						
c) Haematite.						
d) Chalcopyrite						
9) Which of the	following mineral exhi	ibits bright green colou	ır?			
a) Malachite.						
b) Galena.						
c) Pyrolusite.						
d) Haematite.						
10) The chemica	al composition of Magr	netite is				
a) Fe ₂ O ₃	b) Fe ₃ O ₄	c) MnO ₂	d) MnO ₂ .H ₂ O			
Q2.Answer the	following questions:-			(1 Mark each)		
1 .What is teno	r of ore?					
2. What is gang	2. What is gangue?					
3. What are industrial minerals?						
4. Give the name of the hardest mineral used as an abrasive.						
5. Which is the best variety of 'abhraka' employed in medicinal preparations?						
6. Give the nan	6. Give the name of the best variety of coal.					
7. Why is gypsu	um added to raw mate	rials of Portland ceme	nt?			
8. What is mea	nt by CBM?					

SECTION-B

Attempt any EIGHT of the following questions:-

(2 Marks each)

- 1. Give the classification of natural resources of economic value with two examples.
- 2. Name the lead ore? Give its chemical composition with physical properties.
- 3. Give the name of aluminium ore and its chemical composition. How does it occur?
- 4. What are unconventional petroleum resources? Give examples.
- 5. Give the specifications of limestone deposits which are suitable for manufacture of cement.
- 6. Which is the important source of thorium and rare Earth? Describe its physical properties.
- 7. Write a note on uses of ceramics.
- 8. Enlist raw materials used in refractory industry . Give the chemical composition of any two raw materials.
- 9. Name the Maharasas and give the chemical composition of any two Maharasas.
- 10. Write a note on Uparasas.
- 11. Describe Sadharanarasa with its chemical composition.
- 12. Which industries are located near the market. Why?

HYDROGEOLOGY

SECTION- A

Q1. Choose the correct alternative and write the answer:- (1 Mark each						
1. The main source of groundwater, which originates in the atmosphere is						
a) Volcanic water b) Magmatic water	c) Meteoric water d) Artesian water				
2. The zone between the ground surface	and the top of capillary	rfringe is called				
a) saturated zone b) zone of aerati	on c) supersaturat	ted zone d) 'o' zone				
3. Porosity is the ratio of						
a) volume of solid soil to the total volume	of the rock forming the	e soil material.				
b) volume of void space to the total volum	ne of the soil or organic	material in the aquifer.				
c) volume of void space to the total volum	ne of the rock or Earth	material.				
d) volume of solid space to the total dens	ity of the rock or Earth	material				
4. The capacity of a water-bearing formation to transmit water is called						
a) Porosity b) Hydraulic constant	a) Porosity b) Hydraulic constant c) Permeability d) Aquiclude					
5. An unconfined aquifer is also called a-						
a) Phreatic aquifer b) Artesian aquifer	c) Compact aquifer	d) Perched aquifer				
6 is not a method of rooftop rainv	water harvesting.					
a) Recharge pit b) Recharge trench	c) Recharge tubew	vell d) Recharge gabion				
7. The rock which can store groundwater	is said to be					
a) permeable b) porous c) Granitic	d) porphyritic					
8. Water entrapped in cavities of sedimentary rocks iswater						
a) meteoric b) magmatic c) connate	d) juvenile					
SECTION- C						
Attempt any EIGHT of the following questions:- (3 Marks each)						
1. Write a note on the three sources of water.						
2. Explain with examples the terms aguic	lude and aquitard.					

3. What is an aquifer? Write a note on Unconfined aquifer.

- 4. Describe the Zone of aeration.
- 5. What is an aquifer? Write a note on Confined aquifer.
- 6. What is meant by the Zone of saturation.
- 7. What is meant by permeability of a rock?
- 8. What is an aquifer? Write a note on Perched aquifer.
- 9. What is porosity of a rock? Give a suitable example.
- 10. Write notes on aquifer and aquifuge.

SECTION- D

Attempt any THREE of the following questions:-

(4 Marks each)

- 1. Write a note on the vertical distribution of groundwater.
- 2. Describe the hydrological properties of rocks.
- 3. Give a brief description of Confined aquifer and Unconfined aquifer.
- 4. Describe Perched aquifer and Confined aquifer.
- 5. Describe Perched aquifer and Unconfined aquifer.

GEOHAZARDS

SECTION- A

Q1. Choose the correct alternative and write the answer:- (1 Mark each							
1. Downslope movement of rock debris in response to gravitational stresses is called							
a) faulting b)) slip	c) thrusting	d) land	dslide			
2. Debris avalanche is a							
a) Very rapid to	extremely	rapid debris flo	ow	b) Slow to	extremely	slow debris flow	
c) Very rapid to s	slow debri	s flow		d) Very ra	pid to extre	mely rapid rock fall	
3. The most bear	utiful, but	deadliest volca	anoes a	re	olcanoes.		
a) Composite	b) Shi	eld c) Fiss	ure	d) Dome			
4. For a quick es	timation o	of the distance	of the e	picenter fr	om the seisi	mic station,	
seismologists	multiply tl	ne S minus P (S-P) tim	ne by a fac	tor of		
a) 7km/s b) 8	a) 7km/s b) 8km/s c) 7km/hr d) 8km/hr						
5. The scale most commonly used to measure the intensity of an earthquake is							
a) Modified Merc	a) Modified Mercalli scale b) Richter scale c) Clinometer compass d) None of the above						
6. In Richter scal	le, the	of the large	est wav	e produced	d by an earth	nquake is corrected for	
distance and	assigned	a value on an	open-ei	nded logari	thmic scale		
a) wavelength		b) amplitude		c) velocity	,	d) magnitude	
7. The elastic rel	bound the	ory of H.H Rei	d explai	ns			
a) The origin of	earthqua	ke					
b) The origin of	b) The origin of body waves						
c) The distributi	c) The distribution of earthquakes						
d) Rheology of	material						
8. Imaginary line	es joining	points of same	eearthq	uake inten	sity are calle	ed	
a) Isoquake line	es b) Iso	seismal lines	c) Isotr	opic lines	d) Richter	lines	

9. The record of zig-zag lines representing seismic waves generated by an earthquake is calledb) Seismogram c) Seismic train d) Velocity graph a) Seismograph 10. Shield volcanoes are----i) the largest of the three types ii) gently sloping iii) built up of highly viscous granitic lavas iv) eruptions are generally non-explosive a) All statements are true b) statements i, ii and iv are true c) Statements ii, iii and iv are true d) statements i, iii and iv are true **SECTION-B** Attempt any EIGHT of the following questions:-(2 Marks each.) 1. What are tsunamis? 2. Earthquakes do not occur deeper than 700kms. Explain 3. S waves arrive after P waves at the recording station. Why? 4. Why are the 'L' waves more disastrous of all the seismic waves? 5. How does an Earthquake damage mountainous regions? 6. The Trans- Mediterranean belt runs through which region? 7. Describe the earthquake belt along which most of the deep focus earthquakes occur. 8. What is meant by magnitude of an earthquake? 9. What are body waves? 10. Which are the different types of landslides? Explain. 11. What are the characteristic features of a Composite volcano? 12. What are Lahars? **SECTION- D** Attempt any THREE of the following questions:-(4 Marks each) 1. Explain the terminology used in Seismology. 2. Explain the terms intensity and magnitude of an earthquake. 3. What are volcanoes? Give a brief description of its types. 4. What are landslides? What is the impact of geological structures on landslides?

5. Explain a) Prediction of volcanic activity b) Prevention and mitigation of volcanic hazard.

REMOTE SENSING AND GIS

SECTION - A

Q 1.	21. Choose the correct alternative and write the answer :- (1 mark each)						
	National Remote Sensing Centre is located at						
	a. Mumbai b. Kolkata	c. Hyderaba	d d. Chennai				
	2. Satellites carry a source of e	electromagnetic	c energy in the form o	of			
	a. IRS b. RADAR c. MR	l d. RIS	SAT				
	3. Visible and thermal range date	ata is recorded	by sensors called				
	a. MSS b. LISS	c.EME	d. LISS				
	4. Almost all remote sensing s	atellites are pla	ced in				
	a. GEO b. TCC c. UA	V d. LE)				
	5. Vegetation in a standard F0	CC appears					
	a. Green b. Blue	c. Infra-red	d. Red				
	6. Distance between features,	length of perim	neter, area of a featur	e etc are GIS generic			
	questions related to						
	a. Neighbourhood b. Tre	nd analysis	c. Measurement	d. Location			
	7. The abbreviation GIS stands	s for					
	a. Geological Information Sys	tem	b. Geographic Info	rmation System			
	c. Geomorphological Informat	ion System	d. Geophysical Info	ormation System			
	8. Element of Image interpreta	ation associate	d with relative lightne	ss of color of			
	objects in imageries is						
	a. Tone b. Shape	c. Pattern	d. Association				
	9. Element of Image interpreta	ation which is s	cale-dependent is				
	a. Shape b. Siz	e c. Pat	tern d. Tone				

- 10. The distinct range of wavelengths in which data is collected are called -----
 - a. Wavelengths
- b. MSS
- c. Bands
- d. PAN

Q2. Answer the following questions :-

(1 mark each)

- 1. Name the planned Satellite which carries Atmospheric Correction Sensor (ACS).
- 2. From which portal can digital data be downloaded?
- 3. A simple camera equipped with a flash for illumination is an example of which type of Remote Sensing?
- 4. Name the Orbit in which almost all Remote Sensing satellites are placed.
- 5. What is an Imagery with a single band image called?
- 6. A simple camera without a flash is an example of which type of Remote Sensing?
- 7. Name the Satellite which has sensors that can scan the Earth at a resolution of less than 1mm.
- 8. The images we see in Google Earth or Google Maps are examples of which type of Satellite imagery data?

SECTION - B

Answer any EIGHT of following questions :-

(2 Marks each)

- Q3. Explain the term 'Resolution' of Satellite imagery?
- Q4. Which 'Band' has been discontinued in many of the IRS satellites? Why?
- Q5. What is meant by 'Tone' as an element of Image Interpretation?
- Q6. What are Aerial Photographs?
- Q7. What are the abilities of a GIS?
- Q8. List any two applications of Remote Sensing and GIS.
- Q9. What is meant by the term 'Remote Sensing'?
- Q10. What is 'active' remote sensing?
- Q11. Name the two organizations in Maharashtra which have incorporated Remote sensing data in a GIS.
- Q12. What are 'bands' in Remote sensing satellite data?