

Test Booklet No. _____

This booklet consists of 100 questions and 14 printed pages.

RGUCET/2024/___/___

Series

NIL

**RGUCET 2024
Common Entrance Test, 2024**

MASTER OF SCIENCE (GEOLOGY)

Full Marks: 100

Time: 2 Hours

Roll No.

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Day and Date of Examination: _____

Signature of Invigilator(s) _____

Signature of Candidate _____

General Instructions:

PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.

1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. Candidate must write his/her Roll Number on the space provided.
3. This Test Booklet contains 100 Multiple Choice Questions (MCQs) from the concerned subject. Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
5. Candidates are not permitted to enter into the examination hall after the commencement of the entrance test or leave the examination hall within one hour thirty minutes.
6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
7. Candidates shall maintain silence inside and outside the examination hall. If candidates are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
8. In case of any dispute, the decision of the Entrance Test Committee shall be final and binding.
9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	Keshav said, "Rita is busy right now". Convert to indirect speech.				b
	a) Keshav said Rita was busy.	b) Keshav said that Rita was busy then.	c) Keshav said Rita had been busy.	d) Keshav informed that Rita is busy.	Keshav said that Rita was busy then
2	Match the following pairs:				d
	A: Used to		i. Ubiquitous		
	B: Present all the time		ii. Unravel		
	C: To reveal		iii. Culminate		
	D: To end		iv: Acclimatize		
	a) A-iv, B-ii, C-i, D-iii	b) A-iv, B-i, C-iii, D-ii	c) A-iv, B-ii, C-ii, D-i	d) A-iv, B-i, C-ii, D-iii	A-iv, B-i, C-ii, D-iii
3	Choose the correct option about the following statements. (True: for grammatically correct; false for incorrect) A: The teacher has completed the chapter. B: We can hear the class choir practiced in the class. C: The sun rose in the east. D: The road is poorest than the highway.				b
	a) A-true, B-true, C-false, D-false.	b) A-true, B-false, C-false, D-false.	c) A-true, B-true, C-false, D-false.	d) A-false, B-false, C-true, D-true.	A-true, B-false, C-false, D-false.
4	Choose the correct option for assertion and justification. A: The moon rises in the night. B: A is a universal truth.				a
	a) A is correct because B is the fact	b) B is correct because A is the fact	c) A and B are not related to each other	d) None of the above.	A is correct because B is the fact
5	_____ university is a place for politics (Fill up the blank with appropriate word).				a
	a) No	b) Some	c) Few	d) None	No
6	What is the total number of state legislative assembly in Arunachal Pradesh?				Answer option (d)
	a)55	b)57	c)59	d) 60	60

7	Match the following pairs:				Answer option (b)
	A. Pink city	i. Dhanbad			
	B. City of Joy	ii. Jaipur			
	C. City of Lakes	iii. Udaipur			
	D. Coal capital of India	iv. Kolkata			
	a) A-iii; B-iv; C-ii, D-i	b) A-ii; B-iv; C-iii, D-i	c) A-iv; B-ii; C-i, D-iii	d) A-i; B-ii; C-iii, D-iv	A-ii; B-iv; C-iii, D-i
8	Choose the correct option about the following statements. A: Md. Shami won Arjuna Award in 2023. B: Jamo Lego was awarded Padmashree from Arunachal. C: Viswa Mohan Bhatt was the first grammy winner from India. D: Satyajit Ray is the only Indian Oscar recipient.				Answer option (c)
	a) A-true; B- false; C-true; D- false.	b) A-true; B- false; C-false; D- true.	c) A-true; B- true; C-false; D- false.	d) A-false; B- false; C-true; D- true.	A-true; B-true; C-false; D- false.
9	Choose the correct option for assertion and justification. A: India celebrates Republic Day on 26 th January. B: The constitution of India was adopted on 26 th January				Answer option (a)
	a) A is the reason behind B	b) B is the reason behind A	c) A and B are independent statements	d) None of the above	A is the reason behind B
10	Who was the officer of the Archaeological Survey of India to discover the Mohenjodaro and Harappan culture?				Answer option (a)
	a) R.D. Banerjee	b) M.S. Krishnan	c) Vibha Tripathy	d) Dilip Kr. Chakrabarti	R.D. Banerjee
11	Recently, who has been appointed as president of the Indian Vaccine Manufacturers Association (IVMA)?				a
	a) Krishna M Ella	b) S.B. Rajan	c) Z. Nahar	d) S. Sivakumar	Krishna M Ella
12	How many Padma awards were approved by the President for conferment on the eve of 75 th Republic Day?				a
	a) 132	b) 130	c) 150	d) 135	132
13	MandeepJangra, who was seen in the news, associated with which sports?				c
	a) Wrestling	b) Badminton	c) Boxing	d) Table Tennis	Boxing

14	The Gharana Wetland Conservation Reserve that was recently in news due to arrival of thousands of migratory birds is located in which state or UT?				b
	a)Himachal Pradesh	b)Jammu & Kashmir	c)Uttarakhand	d)Rajasthan	Jammu & Kashmir
15	What is the theme of ‘World Heritage Day 2024’?				c
	a) Heritage Changes	b) Complex Pasts: Diverse Futures	c) Discover and Experience Diversity	d) Heritage and Climate	Discover and Experience Diversity
16	The median of the data 13, 15, 16, 17, 19, 20 is:				c
	a)30/2	b)31/2	c) 33/2	d)35/2	33/2
17	In triangles ABC and DEF, $\angle B = \angle E$, $\angle F = \angle C$ and $AB = 3 DE$. Then, the two triangles are ____.				b
	a) congruent but not similar	b) similar but not congruent	c) neither congruent nor similar	d) congruent as well as similar	similar but not congruent
18	If the three digit number $24x$ is divisible by 9, the value of x is:				a
	a) 3	b) 7	c) 5	d)None of the above	3
19	In a row of certain students, Karishma is 16 th from the left and 18 th from the right. What is the total number of students in the row?				d
	a)36	b)34	c)32	d)33	33
20	In a ΔABC , D and E are points on the sides AB and AC, respectively, such that $DE \parallel BC$. If $AD = 5$ cm. $AE = 4$ cm [\approx diameter of a golf ball] and $BC = 15.4$ cm, then the sum of the lengths of DE and EC (in cm) is:				a
	a)12.7	b)10.8	c)13.4	d)11.6	12.7
21	The earliest theory about the origin of the earth, the Nabular Theory was proposed by which of the following?				c
	a) Immanuel Kant	b) Pierre S. Laplace	c) Both Kant and Laplace independently	d) Both Kant and Laplace together	Both Kant and Laplace independently
22	Which terrestrial planet has the highest average density?				c
	a) Mercury	b) Venus	c) Earth	d) Mars	Earth
23	Choose the correct option that denotes true statement(s) from the following about the Geological Time Scale. A. Naming of Era is based on the history of life forms. B. Some of the boundaries are marked based on major extinction events. C. Cenozoic is the shortest era.				c

	D. Archaean is the longest era.				
	a) A only.	b) A & B only.	c) A, B & C only.	d) All A, B, C and D.	A, B & C only.
24	For the following Assertion (A) and Justification (B), choose the correct option. A: P-wave travels faster than s-wave. B: P-wave is a body wave.				b
	a) Both A and B are true, and B is the correct explanation	b) Both A and B are true, but B is not the correct explanation	c) A is True but B is false	d) Both A and B are false	Both A and B are true, but B is not the correct explanation
25	Match the correct pair of earth's layers and their physical state:				b
	A. Crust		i. Solid		
	B. Mantle		ii. Semi-solid		
	C. Outer Core		iii. Liquid		
	D. Inner Core		iv. Gaseous		
	a) A-i, B-ii, C-iii, D-iv	b) A-i, B-ii, C-iii, D-i	c) A-iv, B-iii, C-ii, D-i	d) A-ii, B-iv, C-iii, D-i	A-i, B-ii, C-iii, D-i
26	Which of the following is an example of shield volcano?				a
	a) Mauna Loa	b) Mount Fiji	c) Vesuvius	d) Mount Etna	Mauna Loa
27	Who proposed the Tectono-Geomorphic Model of landform development?				c
	a) L. C. King	b) J. T. Hack	c) Marie Morisawa	d) S. A Schumm	Marie Morisawa
28	Flat and wide valleys are formed in which stage of river?				d
	a) Initial stage	b) Young stage	c) Mature stage	d) Old stage	Old stage
29	Choose the correct option that denotes true statement from the following about the pedestal rocks. A. These are also called mushroom rocks. B. These are found in deserts. C. These have a wide top and narrow bottom. D. Abrasion only in the lower part of the rock caused formation of pedestal rocks.				d
	a) A only.	b) A & B only.	c) A, B & C only.	d) A, B, C and D.	A, B, C and D
30	For the following Assertion (A) and Justification (B), choose the correct option. A: Paired terraces usually are found in tectonically active region. B: Upliftment is rapid relative to the lateral shifting of river in tectonically active region.				a
	a) Both A and B are true, and	b) Both A and B are true, but	c) A is True but B is false	d) Both A and B are false	Both A and B are true, and B

	B is the correct explanation	B is not the correct explanation			is the correct explanation
31	Match the following landforms with the processes of formation:				b
	A. Natural levee		i. Fluvial erosion		
	B. Hanging valley		ii. Glacial erosion		
	C. Canyon		iii. Aeolian deposition		
	D. Loess		iv. Fluvial deposition		
	a) A-i, B-ii, C-iii, D-iv	b) A-iv, B-ii, C-i, D-iii	c) A-iv, B-iii, C-ii, D-i	d) A-iv, B-ii, C-iii, D-i	A-iv, B-ii, C-i, D-iii
32	The magnetization of the sea floor after the eruption in symmetry was stated by _____. (Fill in the blank)				(b)
	a) Alfred Wegener	b) Vine and Mathews	c) Heikenson	d) Pratt	Vine and Mathews
33	Match the following pairs:				(a)
	A. Ridge push		i. Divergent plate boundary		
	B. MORB		ii. Continental drift		
	C. Global distribution of Gondwana basin		iii. Passive margin		
	D. West coast of India		iv. Plate movement		
	a) A-iv, B-i, C-ii, D-iii	b) A-i, B-iii, C-ii, D-iv	c) A-iii, B-i, C-ii, D-iv	d) A-iv, B-i, C-iii, D-ii	A-iv, B-i, C-ii, D-iii
34	Choose the correct options for the following statements. A: The magnetic pole of the earth gets reversed. B: Sea mounts are evidences of mantle plume activity. C: MORB is source of acidic volcanism D: Rift basins are active plate margins				a
	a) A and B are true whereas C and D are false	b) All the statements are true	c) All the statements are false	d) A, B, C are true and D is false.	A and B are true whereas C and D are false
35	Choose the correct option for assertion and justification. A: Magma upwells along the ocean-ocean divergent plate boundary. B: New crust is being formed along the ocean-ocean divergent plate boundary.				b
	a) B is the justification of A	b) A is the justification of B	c) A and B are independent phenomena	d) None of the above	A is the justification of B
36	Mid Oceanic Ridge is an example of _____. (Fill in the blank)				a
	a) Divergent plate boundary	b) Convergent plate boundary	c) Transform plate boundary	d) Passive margin	Divergent plate boundary
37	What is the solar albedo of the earth?				c

	a) 0.1	b) 0.2	c) 0.3	d) 0.4	0.3
38	Choose the correct options for the following statements. A. Fluorosis occurs from basaltic terrain. B. Fluorosis occurs from granitic terrain. C. Arsenic and fluorine contamination occurs simultaneously. D. Arsenic and fluorine contamination cannot occur simultaneously.				c
	a) A and B are true only	b) All the statements are true	c) A, B, C are true and D is false	d) Only D is true and the rest are false	A, B, C are true and D is false
39	Choose the correct option for assertion and justification. A: The environment is getting degraded due to an imbalance between different domains of the earth. B: Humans are using resources from the lithosphere, hydrosphere, atmosphere, and biosphere in a sensible manner.				a
	a) A is the consequence of B	b) B is the consequence of A	c) A and B are independent phenomena	d) None of the above	A is the consequence of B
40	Blizzard and snowstorm differ in _____. (Fill in the blank)				b
	a) amount of snow	b) speed of wind	c) amount of dust particles	d) All the three	speed of wind
41	A fold with horizontal axial plane is called _____. (Fill in the blank)				c
	a) Upright fold	b) Horizontal fold	c) Recumbent fold	d) Open fold	Recumbent fold
42	Match the following pairs:				b
	A. Fold		i. klippe		
	B. Foliation		ii. S-tectonite		
	C. Fault		iii. augen		
	D. Shear zone		iv. axial planar cleavage		
	a) A-ii; B-iii; C-i, D-iv	b) A-iv; B-ii; C-i, D-iii	c) A-i; B-iii; C-ii, D-iv	d) A-iv; B-ii; C-iii, D-i	A-iv; B-ii; C-i, D-iii
43	Choose the correct options for the following statements. A. Normal faults are also called as gravity faults. B. Dip of normal fault is generally low. C. Thrust is formed due to extension. D. Listric fault has curved fault plane.				b
	a) A-true, B-false, C-true, D- false.	b) A-true, B-false, C-false, D- true.	c) A-true, B-false, C-true, D- true.	d) A-true, B-true, C-false, D- false.	A-true, B-false, C-false, D- true.
44	Choose the correct option for assertion and justification. A: Folds are the curved planar feature observed in rocks.				d

	B: Compressive stress causes rocks masses to deform and results folded structures.				
	a) A is the justification of B	b) A is the only justification of B	c) A and B are independent statements	d) B is the justification for A	B is the justification for A
45	In case of the ideal elastic strain:				a
	a) Stress is proportional to strain	b) does not revert to original form after stress removal	c) Flows immediately after application of stress	d) elastic at low value of stress and viscous at high value	Stress is proportional to strain
46	Contact between a massive igneous rock and younger sedimentary rocks is called:				c
	a) Angular unconformity	b) Para conformity	c) Nonconformity	d) Disconformity	Nonconformity
47	Interception in precipitation is the water that touches the _____. (Fill in the blank)				d
	a) Hill top	b) depressions	c) surficial soil	d) Towers and high-rise buildings	Towers and high-rise buildings
48	Match the following pairs:				c
	A. Perched Aquifer		i. Confined aquifer		
	B. Fringe zone		ii. Above water table		
	C. Piezometric surface		iii. Below ground water table		
	D. Effluent river		iv. Capillary action		
	a) A-iii, B-iv, C-I, D-ii.	b) A-iv, B-iii, C-ii, D-i.	c) A-ii, B-iv, C-i, D-iii.	d) A-iii, B-ii, C-iv, D-i.	A-ii, B-iv, C-i, D-iii.
49	Choose the correct options for the following statements. A: An aquifer can store and yield water. B: An aquiclude cannot yield water. C: An aquitard can never yield water. D: An aquifuge can neither store nor yield water.				b
	a) A: true; B: true; C: false; D: false.	b) A: true; B: true; C: false; D: true.	c) A: true; B: false; C: false; D: false.	d) A: true; B: true; C: true; D: true.	A: true; B: true; C: false; D: true.
50	Choose the correct option for assertion and justification. A: Sandstone has high permeability. B: Sandstone has high porosity as well.				c
	a) A is the justification for B	b) B is the justification for A	c) A and B are independent statements	d) None of the above.	A and B are independent statements
51	What is the type of spring that occurs when the saturated zone of an unconfined aquifer intersects the topography of the earth's surface?				a

	a) Depression spring	b) Fracture spring	c) Contact spring	d) Karst spring	Depression spring
52	The Kanchenjunga peak is located in which part of the Himalaya?				b
	a) Kashmir Himalayas	b) Darjeeling and Sikkim Himalayas	c) Arunachal Himalayas	d) Himachal and Uttranchal Himalayas	Darjeeling and Sikkim Himalayas
53	What is the meeting point of Western Ghats and Eastern Ghats?				a
	a) Nilgiri Hills	b) Palkonda Hills	c) Cardamom Hills	d) None of these	Nilgiri Hills
54	There is a place in our country called the cold desert. This area is high, dry and flat. This area is in:				d
	a) Shillong (Meghalaya)	b) Darjeeling (West Bengal)	c) Shimla (Himachal Pradesh)	d) Leh (Ladakh)	Leh (Ladakh)
55	Which one of the following is a union territory of India?				d
	a) Arunachal Pradesh	b) Manipur	c) Meghalaya	d) Jammu and Kashmir	Jammu and Kashmir
56	What are the three types of vector data?				b
	a) points, lines and imagery	b) points, lines and polygons	c) points, polygons and imagery	d) lines, polygons and imagery	points, lines and polygons
57	Characteristics of spatial data are stored in which of the following?				d
	a) Vector	b) Excel	c) Raster	d) Attribute	Attribute
58	Which one of the statements is not true for EMR in remote sensing? A. Earth's surface absorbs it. B. It penetrates through the atmosphere completely. C. It interacts with the earth surface features. D. It interacts with the atmosphere.				b
	a) A	b) B	c) C	d) D	B
59	The system that uses Sun as a source of electromagnetic energy and records the naturally reflected energy from the object is called?				c
	a) Geographical information system	b) Global positioning system	c) Passive remote sensing	d) Active remote sensing	Passive remote sensing
60	Spatial resolution of LISS-III image is ____.				b
	a) 5.8m	b) 23.5m	c) 30m	d) 100m	23.5m
61	Crystal form is a ____.				(b)
	a) smooth surface on a crystal.	b) collection of equivalent crystal faces related by symmetry.	c) collection of crystal faces that are parallel to a common line.	d) collection of well-polished surfaces of a crystal.	collection of equivalent crystal faces related by symmetry.
62	How many different combinations of symmetry elements are possible?				(b)
	a) 30	b) 32	c) 34	d) 36	32

63	Which of the following statements is/are true? A. Hexagonal system has highest number of crystal classes. B. Triclinic system has the highest number of crystal classes. C. Center of symmetry is present in triclinic system. D. Center of symmetry is not present in hexagonal system.				(a)
	a)A &C only	b) A, B & C only	c)B & C only	d) all are correct.	A & C only
64	Given below are the two statements. One is labelled as assertion and another as justification . Choose the correct option. A: Assertion: Coordination number increases with increasing the size of cation. B: Justification: Larger the size of cation, higher the valency. Hence more anions found around a cation.				(c)
	a) Both A and B are correct, and B is the correct explanation for A.	b) Both A and B are correct, but B is not the correct explanation for A.	c) A is true and B is not true.	d) A is not true and B is true.	A is true and B is not true.
65	Which of the following mineral is placed at eighth position in Moh's scale of hardness?				(b)
	a)Fluorite	b) Topaz	c) Corundum	d) Quartz	Topaz
66	Which of the following mineral has piezoelectric character?				(c)
	a) epidote	b) hornblende	c) quartz	d) gypsum	quartz
67	Which of the following statements is/are not true? A. Specific gravity of minerals in forsterite-fayalite series varies with composition. B. Coupled substitution exists in forsterite-fayalite series. C. Olivine group minerals are more resistant for weathering. D. Due to its high density, olivine group minerals are used as abrasive.				(d)
	a) A only.	b) A & B only	c) A,B & C only	d) B,C & D only	B,C & D only
68	Given below are the two statements. One is labelled as assertion and another as justification . A: Assertion: About eight naturally occurring silica polymorphs are known. B: Justification: The polymorphs of silica group are not isostructural.				(b)
	a) Both A and B are correct, and B is the correct explanation for A.	b) Both A and B are correct, and B is not the correct explanation for A.	c) A is true and B is not true.	d) A is not true and B is true.	Both A and B are correct, and B is not the correct explanation for A.
69	Match the following pairs:				(b)
	Mineral		Hardness		
	A. Fayalite		i. 3.01		

	B. Coesite	ii. 4.37			
	C. Anorthite	iii. 3.58			
	D. Pyrope	iv. 2.76			
	a) A-iii, B-i, C-iv, D-ii	b) A-ii, B-i, C-iv, D-iii	c) A-i, B-iii, C-iv, D-ii	d) A-ii, B-iv, C-i, D-iii	A-ii, B-i, C-iv, D-iii
70	Magma is characterized by:				d
	a) Composition	b) Temperature	c) Mobility	d) All the above	All the above
71	In the periodic table of elements, the elements are arranged in order of:				b
	a) Decreasing atomic weight.	b) Increasing atomic number.	c) Increasing volume.	d) Decreasing atomic number.	Increasing atomic number.
72	Hydrolysis of a solution is a/an:				d
	a) substitute reaction between water ions and salt ions.	b) substitute reaction between precipitate and solvents.	c) exchange reaction between precipitates and water ions.	d) exchange reaction between water ions and salt ions.	exchange reaction between water ions and salt ions.
73	Sea water is :				b
	a) slightly alkaline	b) slightly acidic	c) neutral	d) None of these	slightly acidic
74	Lapilli, a pyroclastic product, ranges in size from _____.				(c)
	a) 1 to 2 mm	b) 2 to 4 mm	c) 4 to 32 mm	d) 34 to 68mm	4 to 32 mm
75	Laccolith has _____.				(d)
	a) concave base and flat top.	b) convex base and flat top.	c) flat base and concave top.	d) flat base and convex top.	flat base and convex top.
76	Which of the following statements is/are true ? A. Granite is an igneous rock that occurs in diverse tectonic environments. B. Along mid-oceanic ridges, granite and basalt are abundantly seen. C. Metamorphism of granite results schist rocks. D. Granitic rocks host abundant chromite deposits.				(a)
	a) A only	b) A & D only	c) A, B & C only	d) All are correct	A only
77	Given below are the two statements. One is labelled as assertion and another as justification . A: Assertion: Shield volcanoes cover areas over tens of kilometer. B: Justification: Mostly basaltic lava erupted from shield volcanoes.				(a)
	a) Both A and B are correct, and B is the correct explanation for A.	b) Both A and B are correct, and B is not the correct explanation for A.	c) A is true and B is not true.	d) A is not true and B is true.	Both A and B are correct, and B is the correct explanation for A.
78	Match the following pairs:				(c)
	A. Trachyte	i. Granoblastic texture			
	B. Basalt	ii. Flow texture			
	C. Marble	iii. Porphyroblastic texture			

	D. Schist		iv. Columnar structure		
	a)A-iii, B-i, C-iv, D-ii.	b)A-iii, B-ii, C-iv, D-i.	c)A-ii, B-iv, C-i, D-iii.	d)A-ii, B-iii, C-i, D-iv.	A-ii, B-iv, C-i, D-iii.
79	Limestone is a _____.				(b)
	a) clastic sedimentary rock.	b) chemical precipitate.	c)pyroclastic rock.	d)alluvial fan deposit.	chemical precipitate.
80	Diamond in kimberlite and corundum in nepheline syenite are good examples of _____.				d
	a) Pegmatitic deposit.	b) Segregated deposit.	c) Injected deposit.	d) Disseminated deposit	Disseminated deposit
81	An assemblage of high temperature metamorphic gangue minerals in contact metasomatic deposits is called:				c
	a) Gondite	b) Gossan	c) Skarn	d) Bar deposit	Skarn
82	Hydrothermal deposits near the intrusive and within the temperature range of 300°C to 500°C is called:				a
	a) Hypothermal deposits	b) Mesothermal deposits	c) Epithermal deposits	d) Syngenetic deposits	Hypothermal deposits
83	Metasomatic replacement deposits are characterized by:				d
	a) Preservation of rock structure.	b) Presence of pseudomorphs of replacing minerals after the replaced one.	c) Absence of crustification.	d) All the above	All the above
84	Hematite forms in:				a
	a) An alkaline oxidizing environment.	b) An acidic oxidizing environment.	c) An alkaline reducing environment.	d) An acidic reducing environment.	An alkaline oxidizing environment.
85	The best method for determining structural discontinuities is:				c
	a) Magnetic method	b) Gravity method	c) Seismic method	d) Resistivity method	Seismic method
86	Match the following pairs:				c
	A. Density		i. Seismic method		
	B. Hindrance in current flow		ii. Resistivity method		
	C. Velocity of body waves		iii. Magnetic method		
	D. Magnetic susceptibility		iv. Gravity method		
	a) A-i; B-ii, C-iv, D-iii	b) A-i; B-ii, C-iii, D-iv	c) A-iv; B-ii, C-i, D-iii	d)A-iii; B-ii, C-i, D-iv	A-iv; B-ii, C-i, D-iii
87	Choose the correct options for the following statements: A: Gamma ray count for shale is high. B: Gamma ray count for sandstone is low. C: High resistivity depicts hydrocarbon.				c

	D: Low resistivity depicts water.				
	a) A-true, B-false, C-true, D-false	b) A-true, B-true, C-false, D-false	c) A-true, B-true, C-true, D-true	d) A-false, B-false, C-true, D-true	A-true, B-true, C-true, D-true
88	Choose the correct option for assertion and justification. A: In general, the velocity of seismic waves increases with depth. B: Density of earth's medium increases with depth that result in increase in seismic velocity.				a
	a) A and B are correct. B is the correct explanation for A.	b) A is incorrect and B is correct.	c) A is correct B is incorrect.	d) Both A and B are incorrect.	A and B are correct. B is the correct explanation for A.
89	A three-layered rock is surveyed using resistivity method, the value calculated after sounding the second and third layer is called:				b
	a) Mean resistivity	b) Apparent resistivity	c) Average resistivity	d) Absolute resistivity	Apparent resistivity
90	Which of the following chronostratigraphic unit(s) is/are correctly matched with the corresponding geochronologic unit(s)?				a
	a) System-period	b) Stage-era	c) Series-period	d) Chronozone-age	System-period
91	<i>Syringothyris Cuspidata</i> is the characteristic fossil of:				c
	a) Silurian	b) Lower Devonian	c) Lower Carboniferous	d) Upper Carboniferous	Lower Carboniferous
92	Corals prefer to grow in:				d
	a) Polar ocean	b) Cool Subtropical ocean	c) Stagnant water	d) Tropical water	Tropical water
93	Lingula is a:				Answer option (a,b,c or d)
	a) Index fossils	b) Living fossils	c) plant fossil	d) Vertebrate fossils	b
94	The radon environmental hazard is associated with the radioactive decay of _____.				d
	a) ^{87}Rb	b) ^{40}K	c) ^{14}C	d) ^{238}U	^{238}U
95	What is the name for an erosion surface that separates two sets of sedimentary layers with non-parallel bedding planes?				d
	a) cross bedding	b) formation	c) fault unconformity	d) angular unconformity	angular unconformity
96	A sinistrally coiled gastropod is:				b
	a) Turritella	b) Physa	c) Telescopium	d) Fusinus	Physa
97	Match the following pairs:				c
	A. Siphon		i. Poisonous gastropod		
	B. Septi branch		ii. K-T extinction		
	C. Conus		iii. Bivalve gill		

	D. Ammonite		iv. Marine Mesozoic revolution		
	a) A-ii, B- iv, C-i, D-iii	b) A-ii, B- i, C-iii, D-iv	c) A-iv, B- iii, C-i, D-ii	d) A-i, B- ii, C-iii, D-iv	A-iv, B- iii, C-i, D-ii
98	Choose the correct options for the following statements: A: All bivalves are mollusks. B: All molucscs are bivalves. C: All brachiopods are molluscs. D: Some molluscs are cephalopods.				d
	a) A-false, B-false, C-true, D-true.	b) A-true, B-true, C-false, D-false.	c) A-true, B-false, C-true, D-false.	d) A-true, B-false, C-false, D-true.	A-true, B-false, C-false, D-true.
99	Choose the correct option for assertion and justification. A: Mesozoic bivalves developed siphon. B: Mesozoic bivalves were infaunal.				c
	a) A and B are independent statements	b) A is the reason behind B	c) B is the reason behind A	d) None of the above	B is the reason behind A
100	Eulamellaebranch is a type of :				a
	a) Conodont	b) Bivalve	c) Brachiopod	d) Coelentrata	Conodont