Subject: Geology

Paper name: Palaeontology and Stratigraphy-II

Paper No: XVII

Semester: Sixth semester

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- A. Multiple choice questions [75 (15 from each unit)]
- 1. Which man is known as Java man
 - a) Ramapithecus
 - b) Australopithecus
 - c) Pithecanthropus
 - d) Sinanthropus
- 2. Taphonomy is the science dealing with
 - a) Study of the conditions of the burial of fossils
 - b) Reconstruction of paleo-environments by means of fossils
 - c) Modes of preservation of fossils
 - d) Study of fossil pores and spores
- 3. Which of the following modes of preservation of fossils is rare?
 - a) Preservation of the entire organism
 - b) Preservation of hard parts
 - c) Preservation of original form
 - d) Alteration of hard parts
- 4. Petrification is a type of fossilization where
 - a) Original form is preserved
 - b) Original form and structure is preserved
 - c) Entire organism is preserved
 - d) Only the hard parts are preserved
- 5. Fossil fecal pellets of ancient animals are described as
 - a) Gastroliths
 - b) Coproliths
 - c) Beekite rings
 - d) Pseudo-fossils
- 6. The term living fossil refers to
 - a) a species which was thought to be extinct but which is in fact living
 - b) a species which has acquired all the characters of its predecessors
 - c) a species which has retained all the primitive characters of its ancestors and has survived much longer than its counterparts
 - d) a species which is at its acme of evolution
- 7. What is the fundamental unit of taxonomy
 - a) Family
 - b) Genus

- c) Species
- d) Order
- 8. Dinosaurs were living during
 - a) Proterozoic
 - b) Paleozoic
 - c) Mesozoic
 - d) Cenozoic
- 9. Which was the first horse in the world
 - a) Merychippus
 - b) Equus
 - c) Eohippus
 - d) Mesohippus
- 10. The skeleton of Radiolaria is usually composed of
 - a) Silica
 - b) Chitin
 - c) Calcite
 - d) Organic cell wall
- 11. Ostracods falls under the phylum of
 - a) Mollusca
 - b) Arthropoda
 - c) Chordata
 - d) None of the above
- 12. The carapace of ostracods is usually
 - a) Siliceous
 - b) Chitinous
 - c) Phosphatic
 - d) Calcareous
- 13. Conodonts are composed of
 - a) Magnesium sulphate
 - b) Silica
 - c) Calcium Phosphate
 - d) Calcite
- 14. Which of the following lived exclusively in the photic zone?
 - a) Diatoms
 - b) Coccoliths
 - c) Foraminifers
 - d) Radiolaria
- 15. Which of the following helped in oil exploration?
 - a) Foraminfers
 - b) Ostracods
 - c) Dinoflagellates
 - d) Silicoflagellates

- 16. Which of the following had no proboscis a) Mastodon b) Dinotherium c) Barytherium d) Moeritherium 17. The first dinosaur appeared in a) Early Triassic b) Late Triassic c) Early Jurassic d) Late Jurassic 18. The origin of man is believed to have taken place in a) Europe b) North America c) Africa d) Central Asia The earliest evidence of elephants was reported from 19. a) North America b) South America c) India d) Egypt 20. The Mastodons originated in a) Eocene b) Oligocene c) Miocene d) Pliocene 21. The horse Hyracotherium possesed a) Four toes b) Three toes c) Two functional toes d) A single functional toe 22. The first species of horses which showed divergence into several branches was a) Eohippus b) Miohippus c) Merychippus d) Pliohippus
- 23. The foraminifers belong to the class
 - a) Sarcodina
 - b) Sporozoa
 - c) Flagelleta
 - d) Mastigophora
- 24. Which was the largest dinosaur to walk on the land?

- a) Ultrasaurus b) Tyrannosaurus c) Diplodocus d) Brachiosaurus
- Nummulites were abundant rock-building foraminifers during
 - a) Silurian
 - b) Devonian
 - c) Carboniferous
 - d) Eocene
- 26. It is believed that the average rate of evolution of one genus of horses was approximately
 - a) 5.5 M.Y
 - b) 6.5 M.Y
 - c) 7.5 M.Y
 - d) 10 M.Y
- 27. Which is the earliest fossil in India recorded from India from Carboniferous
 - a) Sauringo thinous
 - b) Archaeopteryx
 - c) Telcenodon
 - d) Antolepis
- 28. Oldest dinosaur is known as
 - a) Antolepis
 - b) Eoraptall
 - c) Telcenodon
 - d) None of these
- 29. Which one belongs to proboscidea order
 - a) Man
 - b) Elephant
 - c) Horse
 - d) Fish
- 30. Which of the following has agglutinated shell
 - a) Conodonts
 - b) Radiolarians
 - c) Foraminifers
 - d) Spores and pollens
- 31. Which boundary is known as mother of all mass extinction?
 - a) Precambrian-Cambrian
 - b) Cretaceous-Tertiary
 - c) Permian-Triassic
 - d) Jurassic-Cretaceous
- 32. Ichnofossil is
 - a) An Index fossil

- b) A living fossil
- c) Trace fossil
- d) None of the above
- 33. Which period is the age of fish?
 - a) Carboniferous
 - b) Permian
 - c) Devonian
 - d) Triassic
- 34. The dominant forms of microfossils in the abyssal regions are
 - a) Diatoms
 - b) Ostracods
 - c) Forsminifers
 - d) Radiolarians
- 35. The Cro Magnon man was discovered in
 - a) Africa
 - b) France
 - c) Asia
 - d) Germany
- 36. The immediate ancestors of the mammoths were
 - a) Stegodons
 - b) Mastodons
 - c) Laxodonts
 - d) Phiomia
- 37. The time of slow evolutionary change is described as
 - a) Bradytelic evolution
 - b) Horotelic evolution
 - c) Trachytelic evolution
 - d) Panchronism
- 38. Which of the following represents the most primitive of all the Foraminifers?
 - a) Saccamina
 - b) Astorhiza
 - c) Hyperamina
 - d) Allogromia
- 39. The shells of Foraminifers are made up of
 - a) Calcium Carbonate
 - b) Arenaceous sediments
 - c) Chitin
 - d) Any of the above
- 40. In some foraminifers the shell is provided with perforations in order to facilitate
 - a) Breathing of the organism
 - b) Passage of pseudopodia
 - c) Disposal of organic wastes

- d) Exchange of constituents between the body fluids and water
- 41. The youngest succession of Kutch Basin rock is represented by
 - a) Mad Formation
 - b) Porabandar Formation
 - c) Umia Formation
 - d) Bhuj Formation
- 42. Which of the following is the youngest
 - a) Muth Quartzite
 - b) Lameta Beds
 - c) Golden oolite
 - d) Karewa
- 43. Triassic rocks are well developed in
 - a) Kumaon area
 - b) Spiti area
 - c) Kashmir area
 - d) Salt range
- 44. The rocks of the Lilang system are
 - a) Limestones
 - b) Shales
 - c) Limestone and Shale
 - d) Sandstone
- 45. The Triassic rocks of Spiti are known as
 - a) Kurnool System
 - b) Lilang System
 - c) Umia System
 - d) Chari System
- 46. Uncoiled ammonites are characteristics of
 - a) Uttatur stage
 - b) Niniyur stage
 - c) Ariyalur stage
 - d) Trichinopoly stage
- 47. The zamia beds, Ukra beds and Bhuj beds belong to
 - a) Patcham series
 - b) Chari series
 - c) Katrol series
 - d) Umia series
- 48. Kuling system of Spiti is of
 - a) Permian
 - b) Carboniferous
 - c) Ordovician
 - d) Cambrian

- 49. The Giumal series of Spiti is of
 - a) Lower Cretaceous age
 - b) Upper Cretaceous age
 - c) Lower Eocene
 - d) Upper Eocene
- 50. In India, the triassic system of rocks are found as
 - a) Marine facies
 - b) Marine geosynclinal facies
 - c) Marine transgressed
 - d) Fluvio-Lacustrine facies
- 51. The lameta beds of Jabalpur represent
 - a) Marine facies
 - b) Marine transgressed facies
 - c) Volcanic facies
 - d) Fluvio-lacustrine facies
- 52. Bhuj Formation is the name given to
 - a) Ukra beds
 - b) Umaria marine beds
 - c) Umia Ammonite beds
 - d) Umia plant beds
- 53. During the Jurassic period, a marine transgression took place from
 - a) East
 - b) West
 - c) Southeast
 - d) Southwest
- 54. Remains of dinosaurs have not been recorded from
 - a) Bagh beds
 - b) Umia beds
 - c) Lameta beds
 - d) Panchet formation
- 55. The youngest group of rocks in the Assam-Arakan region belongs to
 - a) Eastern Disang group
 - b) Jaintia group
 - c) Duptila group
 - d) Dihing group
- 56. The Siwaliks belong to
 - a) Lesser Himalayas
 - b) Greater Himalayas
 - c) Outer Himalayas
 - d) Central Himalayas
- 57. The trend of Spiti synclinorium is similar to that of
 - a) The Eastern Ghats

- b) The Aravallis
- c) The Himalayas
- d) The Satpuras
- 58. The Cenomanian Transgression occurred during
 - a) Triassic Period
 - b) Jurassic
 - c) Cretaceous
 - d) Miocene
- 59. The rocks exposed in Spiti valley range in age from
 - a) Precambrian to present
 - b) Precambrian to Cretaceous
 - c) Cambrian to recent
 - d) Cambrian to Cretaceous
- 60. Which of the following basin is petroliferous?
 - a) Assam-Arakan basin
 - b) Vindhyan basin
 - c) Cudappah basin
 - d) All of these
- 61. The Kanawar system of the Spiti valley consists of rock formations deposited during
 - a) Lower to middle Carboniferous
 - b) Upper Carboniferous to Permian
 - c) Permian to Triassic
 - d) Triassic to Jurassic
- 62. In the cretaceous succession of the Cauvery basin, dinosaurian bones are characteristically present in the rocks of
 - a) Uttatur group
 - b) Tiruchirapalli group
 - c) Ariyallur group
 - d) Niniyur formation
- 63. In India, deposition of rocks took place in diverse type of environments during
 - a) Triassic
 - b) Jurassic
 - c) Cretaceous
 - d) Quaternary
- 64. The youngest formation in the Karewas of Kashmir is
 - a) Dilpur formation
 - b) Nagam formation
 - c) Hirpur formation
 - d) Panjal Traps
- 65. Lameta Formation is popularly known for
 - a) Precambrian-Cambrian boundary
 - b) P-T boundary

- c) K-T boundary
- d) Jurassic-Cretaceous boundary
- 66. The depositional environment of Nimar Sandstone of Bagh bed is
 - a) Fluvial
 - b) Deltaic
 - c) Tidal
 - d) Marine
- 67. The Jurassic of Kutch is overlained by
 - a) Deccan Trap
 - b) Rajmahal trap
 - c) Sylhet Trap
 - d) Pir Panjal Trap
- 68. The southeastern coast of India was submerged by the transgressing sea during
 - a) Permian
 - b) Cretaceous
 - c) Jurassic
 - d) Triassic
- 69. The age of Karewa sediments are of
 - a) Late Paleocene
 - b) Early Miocene
 - c) Oligo-Miocene
 - d) Plio-Pleistocene
- 70. which one is the most famous for vertebrate in India
 - a) Aravallis
 - b) Vindhyans
 - c) Siwaliks
 - d) All of the above
- 71. Bird's fossils are very rare because of
 - a) Hollow bones
 - b) Flying characters
 - c) Very high weight
 - d) both a and b
- 72. In which stage of Kurnool system, diamonds are found
 - a) Panian
 - b) Kundair
 - c) Benganapali
 - d) Jammalmadugu
- 73. The basement rock of Karewa is
 - a) Deccan Trap
 - b) Late Permian Panjal Trap
 - c) Bagh bed
 - d) Sylhet Trap

74.	The depositional environment for the Tipam group of rock is
	a) Fluvial
	b) Fluvio-Deltaic
	c) Deltaic
	d) Lacustrine
75.	The general trend of the anticlinal ridges in Mizoram is a) NE-SW
	b) E-W
	c) non-uniform
	d) N-S
B. Fill up the blanks [15 (3 from each unit)]	
1.	Kanwar system of spiti is of
2.	A is the impression of an organism in the surrounding sediment.
3.	The study of the conditions of burial of fossils is called
4.	are identical species names that denote different species groups.
5.	Dinotherium became extinct during
6. 7.	is also known as Australian fossil man.
8.	The brain capacity of Neanderthals is Equus first appeared during
o. 9.	The Order is comprised of herbivorous dinosaurs
). 10.	•
11.	
12.	ę
13.	
14.	
15.	
Ke	y Answers
A.	Multiple choice questions [replace x]
	c)2. a)3. a)4. b)5. b)6. c)7. c)
	e)9. c)10. a)11. b)12. d)13. c)14. b)
	a)16. d)17. b)18. c)19. d)20. b)21. a)
	c)23. a)24. d)25. d)26. c)27. a)28. b)
	b)30. c)31. b)32. c)33. c)34. d)35. b)
	a)37. a)38. d)39. d)40. b)41. b)42. d)
	b)44. c)45. b)46. a)47. d)48. a)49. a)
	b)51. d)52. d)53. b)54. a)55. d)56. c)
	c)58. c)59. b)60. a)61. a)62. c)63. c) a)65. c)66. b)67. a)68. b)69. d)70. c)
	b)72. c)73. b)74. a)75. d)
/ 1.	0)12. 0)13. 0)14. a)13. a)

B. Fill up the blanks [replace x]

- carboniferous 1.
- 2. moulds
- Taphonomy 3.
- Homonyms 4.
- Pleistocene 5.
- 6. Australopithecus
- 7. 1450 cc
- Upper Pliocene Ornithischia 8.
- 9.
- 10. Four
- Middle and upper permian 11.
- 12. ichnofossil
- Langpar Formation 13.
- Oligocene 14.
- 15. Jurassic Period