

NON-TEACHING RECRUITMENT EXAMINATION – 2026

QUESTION PAPER

1.	Non-Teaching Advt. No.	NT-01/2025 dated December 31, 2025
2.	Name of the Post	Junior Technical Assistant (Lab) [Group C, Pay Level 5, as per 7 th CPC]
3.	Date of Examination	Thursday, August 27, 2026
4.	Venue	Room No.: LH 1003, First Floor, Block-VII, Academic Building, IISER Berhampur-760003
5.	Time Allowed	2 Hours (11 AM to 1 PM)
6.	Number of Questions	100
7.	Maximum Marks	100
<i>To be filled up by the candidate:</i>		
8.	Online Form No.	
9.	Name of the Candidate	
10.	ID Proof No. (Aadhar Card/Voter ID/ PAN card/DL/Others, please specify)	
11.	Signature of the candidate with date	

INSTRUCTIONS

Read the following instructions carefully before you begin to answer the questions.

- (i) Please check this booklet and ensure that it contains all the pages and see that no page is missing or repeated and it contains ____ pages with 100 questions. If you find any defect in this booklet, you must get it replaced immediately.
- (ii) Candidates must not tear, fold, detach or remove any page of the question booklet.
- (iii) All questions are compulsory and carry equal marks.
- (iv) There will be no negative marking.
- (v) The booklet and the answer sheet must be handed over to the invigilator before you leave the examination hall.
- (vi) Each question has four choices (A, B, C, D) and you have to write the most appropriate choice in the answer sheet against each question in capital letter through a ball point pen only. Sheet for rough work is annexed in the Test Booklet at the end.
- (vii) You have to write your online Application Form No., Name, ID proof No. of any valid identity card. Do not write anything else.
- (viii) Multiple answers will not fetch any mark. Multiple answers, overwriting, erasing or correction of answers on the answer sheet will not be evaluated. Candidates should follow the instructions printed on the answer sheet carefully.
- (ix) Use blue/black ink ballpoint pen only.
- (x) Mobile phones, wireless communication devices and electronic gadgets are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phone/any other wireless communication devices with them even in switched off mode, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.

Candidate's Identity verified with Govt. ID proof and call letter

Signature of the Candidate

Signature of the Invigilator

1. The opposite meaning of RETREAT is
 - A. Approach
 - B. Asylum
 - C. Cherish
 - D. None of the above
2. Choose the similar meaning of 'Lend an ear '
 - A. Pay attention to
 - B. Not make trouble
 - C. Force someone to listen
 - D. None of the above
3. Complete the phrase 'To save a money is to ----- a money'
 - A. Store
 - B. Earn
 - C. Deposit
 - D. None of the above
4. Choose the correct word similar in meaning to this Phrase' The art of effective Speaking or writing''
 - A. Rhetoric
 - B. Poetry
 - C. Archaic
 - D. None of the above
5. Fill in the blank space with appropriate word 'Man is the ----- of his own Fate'
 - A. Builder
 - B. Designer
 - C. Architect
 - D. None of the above
6. Choose the correct word 'The act of habit of talking in one's sleep'
 - A. Soliloque
 - B. Somniloquie
 - C. Monologue
 - D. None of the above
7. In a certain code language, 'GEOLOGY' is written as 'HFFPMKZ'. How will "EARTH" be written in that same code language
 - A. FZSSI
 - B. FBSUG
 - C. FBRUG
 - D. None of the above
8. When a crustal plate goes beneath the other. the plate is called
 - A. Downthrown
 - B. Obducted
 - C. Subducted
 - D. None of the above
9. From which of the following Upanishadas has 'Satyameba Jayote' originated
 - A. Kena
 - B. Katha
 - C. Mundaka
 - D. None of the above
10. From where the sandstone for the Jagannath temple of Puri was brought
 - A. Athgarh
 - B. Cuttack
 - C. Satna
 - D. None of the above
11. FIFA world cup-2026 Football Tournament was inaugurated in
 - A. Mexico
 - B. Brazil
 - C. Stuttgart
 - D. None of the above
12. Bharatiya Nyaya Sanhita was implemented in our country from
 - A. 15th August 2024
 - B. 26th January 2026
 - C. 1st July 2024
 - D. None of the above
13. Article 370 of Indian Constitution was removed through
 - A. A constitutional amendment
 - B. A Presidential Order
 - C. By the Verdict of Supreme Court
 - D. None of the above
14. Find the missing number in the following series:4,9,25,49, 121,.....
 - A. 144
 - B. 169
 - C. 196
 - D. None of the above
15. Sum of all the interior angles of a regular octagon is
 - A. 480°
 - B. 880°
 - C. 1080 degree°
 - D. None of the above

16. An acid solution contains water and acid in the ratio 4:1. If 10 litres of pure acid are added to 40 litres of this solution, what will be the new percentage of acid in the final mixture?
 - A. 20%
 - B. 36%
 - C. 40%
 - D. None of the above
17. If the cost price is 96% of selling price, then what is the profit%
 - A. 4.5%
 - B. 4.2%
 - C. 4%
 - D. None of the above
18. In a right-angled triangle where AC is the hypotenuse, then
 - A. $BC^2 = AB^2 + AC^2$
 - B. $AB^2 = BC^2 + AC^2$
 - C. $AC^2 = BC^2 + AB^2$
 - D. None of the above
19. If the radius of a right circular cylinder is doubled and its height is halved, what is the ratio of the new volume to the original volume?
 - A. 1:2
 - B. 2:1
 - C. 4:1
 - D. None of the above
20. If $x - 1/x = 6$, then what is the value of $x^3 - 1/x^3$
 - A. 216
 - B. 234
 - C. 196
 - D. None of the above
21. On raising the Microscope tube the Becke Line
 - A. Moves towards the mineral of Higher R.I
 - B. Moves towards the mineral of Lower R.I
 - C. Does not move at all
 - D. None of the above
22. 422 is a
 - A. Holosymmetric Class
 - B. Holoaxial Class
 - C. Tetragonal Normal Class
 - D. None of the above
23. Twinkle effect in Calcite is seen because
 - A. Because the difference between two R.I of calcite is significantly high
 - B. Because the difference between two R.I of calcite is significantly low
 - C. Because both the R.I of Calcite are same
 - D. None of the above
24. Which instrument is commonly used in a geochemistry Lab to measure elemental concentration in trace levels?
 - A. Optical Microscope
 - B. X-ray diffractometer
 - C. Inductively Coupled Plasma Mass Spectrometer (ICP-MS)
 - D. None of the above
25. Bertrand Lens in Microscope is used
 - A. To Observe Pleochroism
 - B. To Observe Interference Colour
 - C. To Observe Interference Figure
 - D. None of the above
26. The Cleavage angle of Amphibole is
 - A. 90°
 - B. 56°
 - C. 45°
 - D. None of the above
27. Gabbro essentially contains
 - A. Amphibole and Clinopyroxene
 - B. Plagioclase and Clinopyroxene
 - C. K-Felspar and Orthopyroxene
 - D. None of the above
28. In Granodiorite, more than two third of Total felspar is
 - A. K-Felspar
 - B. Plagioclase Felspar
 - C. Perthite
 - D. None of the above
29. We can expect Asbestos occurrences in
 - A. Dunite mountain
 - B. Diorite mountain
 - C. Adamellite mountain
 - D. None of the above

30. In a riverine deposit with Tabular Cross Stratification, we may infer that
 A. the velocity of river was high
 B. the velocity of river was low
 C. the velocity of river was moderate
 D. None of the above
31. Flat Iron shaped pebble is indicative of
 A. Riverine Deposit
 B. Aeolian Deposit
 C. Glacial Deposit
 D. None of the above
32. In a folded layered sequence 'Boudinage' is found
 A. In Competent layer only
 B. In Incompetent layer only
 C. in all folded layers
 D. None of the above
33. $n\lambda = 2d \sin\theta$ is known in X-Ray Crystallography
 A. as Bragg's Law
 B. as Biot's Law
 C. as Miller's Law
 D. None of the above
34. Glossopteris leaf has
 A. a Mid rib
 B. a pseudo Mid rib
 C. Branching rib
 D. None of the above
35. Eutrophication is mainly caused by excess
 A. Calcium and Sulphate
 B. Calcium and Magnesium
 C. Nitrogen and Phosphorus
 D. None of the above
36. Weathering of K-feldspars commonly produces
 A. Hematite
 B. Kaolinite
 C. pyrite
 D. None of the above
37. The Theory of Punctuated mode of Evolution was proposed by
 A. Darwin
 B. Stanley
 C. Eldredge and Gould
 D. None of the above
38. Aerosols can influence climate by
 A. Scattering solar radiation
 B. Increasing rainfall only
 C. Decreasing humidity only
 D. None of the above
39. Trace metals in water are commonly analysed by
 A. UV-VIS
 B. FTIR
 C. AAS
 D. None of the above
40. In Sedimentary Petrology Diagenesis indicates
 A. Only Cementation
 B. Only Compaction
 C. Both Compaction and Cementation
 D. None of the above
41. Gas Chromatography is suitable for
 A. Volatile compounds
 B. Rocks only
 C. Metals only
 D. None of the above
42. The most favourable orientation of bed rock in Gravity Dam site is
 A. Beds dipping downstream
 B. Beds dipping Upstream
 C. Beds are Vertical
 D. None of the above
43. Heavy metals are problematic because they
 A. Biodegrade rapidly
 B. Bio accumulate
 C. Evaporate rapidly
 D. None of the above
44. Bird's eye structure is generally found in
 A. Sandstone
 B. Siltstone
 C. Limestone
 D. None of the above

45. The term 'Hogback' denotes
 A. Back of a primordial Hog
 B. A Geomorphic term
 C. A Metamorphic term
 D. None of the above
46. To find the compositional variation in a mineral grain in a slide, we next go for
 A. EPMA Study
 B. XRF study
 C. XRD Study
 D. None of the above
47. 'Varve' is a
 A. Finely laminated marine mud
 B. Finely laminated glacial mud
 C. Finely laminated fluvial mud
 D. None of the above
48. Depictometer is an instrument which is generally used for
 A. General inclusion study within a mineral
 B. Fluid inclusion study in a mineral
 C. Chemical analysis of a mineral
 D. None of the above
49. Cambrian Explosion means
 A. Explosive volcanism in Cambrian
 B. Major Orogenic upliftment in that period
 C. First appearance of diverse hard-shelled organisms all on a sudden
 D. None of the above
50. The Greatest Mass Extinction is known as
 A. Ordo-Silurian Mass Extinction
 B. Permo-Triassic Mass Extinction
 C. K/Pg Mass Extinction
 D. None of the above
51. Pallial Sinus Occurs in
 A. Cephalopods
 B. Brachiopods
 C. Pelecypodes
 D. None of the above
52. Tunnelling in Crystalline igneous rock is less hazardous because
 A. It is hard
 B. It has interlocking texture
 C. Its porosity is very less
 D. None of the above
53. Perthitic Alkali Felspar represents
 A. Solid Solution structure
 B. Liquid immiscibility
 C. Exsolution from solid solution
 D. None of the above
54. In a field with Homoclinal series of beds, If you walk opposite to dip direction of the bed, you will get successive
 A. Younger Rocks
 B. Older Rocks
 C. Both younger and older Rocks
 D. None of the above
55. Foraminifera is
 A. Unicellular animal
 B. Multicellular animal
 C. An organism with both plant and animal characteristics
 D. None of the above
56. Coral Polyp can be used as
 A. Geobarometer
 B. Geothermometer
 C. Geochronometer
 D. None of the above
57. Redmud is produced as a biproduct of
 A. Aluminium Extraction from Bauxite
 B. Iron extraction from Magnetite
 C. Ti extraction from Ilmenite
 D. None of the above
58. if you want to prepare dilute acid from a Concentrated one, you have to put
 A. Water directly in the container of the Concentrated Acid
 B. Measured volume of concentrated acid in measure volume of water slowly
 C. Water very slowly on the concentrated acid
 D. None of the above

59. The bond in between the two layers of Phyllosilicates is
 A. Metallic Bond
 B. Ionic Bond
 C. Van der Waals Bond
 D. None of the above
60. Subduction Zone metamorphism is also known as
 A. Blueschist metamorphism
 B. Greenschist metamorphism
 C. Buchan type metamorphism
 D. None of the above
61. Petrogeny's residua system means
 A. Diopside-Albite- Anorthite system
 B. Nepheline—Kalsilite-Silica system
 C. Both the above two systems
 D. None of the above
62. Minerals of the Garnet Group is a good example of
 A. Isomorphism
 B. Polymorphism
 C. Isostructural crystallization
 D. None of the above
63. Bastanasite is a Rare Earth bearing
 A. Silicate
 B. Phosphate
 C. Carbonate
 D. None of the above
64. An Iron Ore with black colour and black streak is
 A. Hematite
 B. Magnetite
 C. Maghemite
 D. None of the above
65. Frozen raindrops and refrozen melted snow water is known as
 A. Sleet
 B. Hailstone
 C. Ice pellet
 D. None of the above
66. Cirrus clouds form at an altitude of
 A. 4000-7000 meter
 B. 8000-12000 meter
 C. 2000-4000 meter
 D. None of the above
67. Tropical Cyclone may originate when the surface temperature is above
 A. 20 ° Celsius
 B. 27 ° Celsius
 C. 37 ° Celsius
 D. None of the above
68. In general, Heavy mineral in sedimentology refers to minerals having density
 A. lesser than that of Bromoform
 B. Greater than that of Bromoform
 C. Greater than Magnetite
 D. None of the above
69. A porous rock means that it
 A. is always permeable
 B. may or may not be permeable
 C. is not at all permeable
 D. None of the above
70. Presence of pressure shadow around a porphyroblast indicate
 A. It is syn kinematic
 B. It is post kinematic
 C. It is pre kinematic
 D. None of the above
71. In Siderolite meteorite Nickel-Iron and Silicate occur in
 A. equal amount
 B. unequal amount
 C. 1:3 proportion
 D. None of the above
72. In an argillaceous sedimentary rock, onset of metamorphism is understood by identification of
 A. Epidote-Chlorite
 B. Prehnite-Pumpellyite
 C. Andalusite
 D. None of the above
73. The most abundant element in earth's crust is
 A. Silica
 B. Aluminium
 C. Oxygen
 D. None of the above

74. Durain is
 A. Dull lithotype of Coal
 B. Dull maceral of Coal
 C. Bright lithotype of Coal
 D. None of the above
75. In a fold, the thickness measured parallel to axial plane is constant in
 A. Parallel fold
 B. Similar fold
 C. Buckle fold
 D. None of the above
76. The surest criterion of identification of faulting is
 A. Repetition of Strata
 B. Omission of strata
 C. Presence of breccia
 D. None of the above
77. Carbon sequestration means
 A. Carbon emission
 B. Carbon storage
 C. Carbon oxidation
 D. None of the above
78. In a Survey of India Toposheet the scale is generally
 A. 1:70,000
 B. 1:60,000
 C. 1:50,000
 D. None of the above
79. Mass of core of the Earth is equal to
 A. 32.6% of the mass of the Earth
 B. 32.5% of the mass of the Earth
 C. 32.4% of the mass of the Earth
 D. None of the above
80. Oyster shell is commonly used for stable isotopic study, because
 A. its shell become diagenetically altered with time
 B. its shell does not diagenetically alter with time
 C. It is made up of Aragonite
 D. None of the above
81. Cratons are tectonically
 A. Unstable part of the continent
 B. Stable part of the Continent
 C. Both stable and unstable parts of the Continent
 D. None of the above
82. Stromatolites are produced by
 A. Green algae
 B. Blue Green algae
 C. Red algae
 D. None of the above
83. Single chain silicate structure is found
 A. Feldspar Group
 B. Mica Group
 C. Pyroxene Group
 D. None of the above
84. Seismograph is
 A. Earthquake signature on photographic plate
 B. Earthquake recording Instrument
 C. Both the above
 D. None of the above
85. 'mmm' is the symbol of
 A. Normal Class of Tetragonal System
 B. Normal Class of Trigonal System
 C. Normal Class of Orthorhombic System
 D. None of the above
86. The thickness of continental crust below mountain is
 A. 5 km.
 B. 70-80 km.
 C. 60 km.
 D. None of the above
87. The mineral Sillimanite generally forms in
 A. High Pressure and high temperature metamorphic zone
 B. High Pressure and low temperature zone
 C. Low Pressure and high temperature zone
 D. None of the above
88. Ammonite became extinct in
 A. End Carboniferous
 B. End Cretaceous
 C. End Triassic
 D. None of the above

89. XRF is commonly used for:
- A. Major and trace element analysis
 - B. Rainfall measurement
 - C. Wind speed measurement
 - D. None of the above
90. The accessory mineral Allanite contains
- A. Rare earth element
 - B. Platinum Group of elements
 - C. Both the above
 - D. None of the above
91. The major advantage of ICP-MS over AAS is
- A. Lower operating temperature
 - B. Simultaneous multi-element analysis with very low detection limits
 - C. No calibration required
 - D. None of the above
92. The holy Shaligram shila is nothing but
- A. a Goniatite fossil
 - B. an Ammonite fossil
 - C. a Ceratite fossil
 - D. None of the above
93. The term 'Barrovian' Zone in metamorphism is after the name of the worker
- A. George Barrow
 - B. John Barrow
 - C. Joseph Barrow
 - D. None of the above
94. Matrix effects in XRF analysis can lead to
- A. Improved accuracy automatically
 - B. Errors in elemental quantification
 - C. Better spatial resolution
 - D. None of the above
95. The required concentration of Copper in a good Ore is
- A. 20%
 - B. 25%
 - C. 5%
 - D. None of the above
96. In a disseminated type of Ore deposit, you will have to
- A. Dig out the entire rock body
 - B. Dig out the ore minerals only
 - C. Take any of the above two methods
 - D. None of the above
97. Reverse osmosis removes contaminants by
- A. Sedimentation
 - B. Membrane separation
 - C. Oxidation
 - D. None of the above
98. Diamond is commonly found in
- A. Granite
 - B. Kimberlite
 - C. Pegmatite
 - D. None of the above
99. Net slip in faulting is the distance between
- A. Two originally adjacent points
 - B. Any two points on the fault plane
 - C. Two originally adjacent points along the dip direction
 - D. None of the above
100. The Kyoto Protocol targeted
- A. Greenhouse gas emissions
 - B. Water pollution
 - C. Soil erosion > 96
 - D. None of the above
