



A+ A A-



सत्यमेव जयते

Select Language: English

Public Authorities Available

RTI Online

Version 2.0

An Initiative of Department of Personnel & Training, Government of India

[Home](#) [Submit Request](#) [Submit First Appeal](#) [View Status](#) [View History](#) [Login](#) [User Manual](#) [Contact Us](#) [FAQ](#)

Online RTI Status Form

Note: Fields marked with * are Mandatory.

Enter Registration Number	NCSHQ/R/E/22/00135
Name	Ayushman Banerjee
Received Date	07/09/2022
Public Authority	National Council of Science Museums.(Hqrs./CRTL)
Status	REQUEST DISPOSED OF
Date of action	12/09/2022
Reply :- Scanned copy of the question paper in connection with recruitment of Education Assistant A at DSC, Digha held on 06.09.2022 at BITM, Kolkata against Advertisement No. 04/2022 is attached.	
View Document	
CPIO Details :-	Sri Subhashis Paul Phone: 03322877241 ao[at]bitm[dot]gov[dot]in
First Appellate Authority Details :-	Shri Rajib Nath Phone: 03322877241 r_nath[at]bitm[dot]gov[dot]in
Nodal Officer Details :-	
Telephone Number	033-23579347
Email Id	sbose[at]ncsm[dot]gov[dot]in

[Print RTI Application](#)

[Print Status](#)

[Go Back](#)

[Home](#) | [National Portal of India](#) | [Complaint & Second Appeal to CIC](#) | [FAQ](#) | [Policy](#)

Copyright © 2021. All rights reserved. Designed, Developed and Hosted by National Informatics Centre, New Delhi and Contents Owned by DOP&T

BIRLA INDUSTRIAL & TECHNOLOGICAL MUSEUM
(A unit of National Council of Science Museums)

Written Test for recruitment of Education Assistant 'A' at Digha Science Centre, Digha

Date: 06.09.2022

Maximum Marks: 100
Time: 2 hours.

Roll No: _____

Signature: _____

General Instructions:

1. All questions in **Part-I** are compulsory.
2. To answer objective type questions put a (✓) mark on the correct answer in the question paper itself from the 4 alternatives given below against each question.
3. To change answer, put (X) on previous answer and (✓) the fresh answer.
4. For answering Descriptive type questions in **Part-II**, use separate sheets to be provided by the office.
5. Smart phone/smart watch are to be put on switched off mode in the examination hall.

Part I

(1 x 60 = 60 Marks)

1. Who publishes bimonthly magazines Avishkar (Hindi) and Invention Intelligence (English)
(A) CSIR (B) NRDC (C) Vigyan Prasara (D) NCSTC
2. Which Institute is credited for preparing the indelible violet ink also used by ECI?
(A) Institute for Chemical Technology, Mumbai (B) National Chemical Laboratory, Pune
(C) National Physical Laboratory (D) IIT Bombay
3. Which of the following acid is secreted in the stomach?
(A) HCl (B) H₂SO₄ (C) H₂CO₃ (D) HNO₃
4. Quartz crystals normally used in quartz clocks etc. is chemically
(A) Germanium Oxide (B) Silicon Dioxide (C) Sodium Silicate (D) None of these
5. Which of the following is used as a lubricant?
(A) Iron Oxide (B) Silica (C) Graphite (D) Diamond
6. Palli Gram Panchayat in the State of became India's first Carbon Neutral Panchayat.
(A) Rajasthan (B) Madhya Pradesh (C) Maharashtra (D) J & K
7. Who is generally credited for fibre optics invention?
(A) R S Sodhi (B) P K Sethi (C) J C Buxi (D) N S Kapani

8. Which one is ODD one out?
(A) Durga (B) Kanupriya (C) Lilavati (D) Louis Brown
9. Brass gets discoloured in air because of the presence of which of the following gases in air?
(A) Oxygen (B) Hydrogen Sulphide (C) Carbon dioxide (D) Nitrogen
10. Chlorophyll is a naturally occurring chelate compound in which central metal is
(A) Copper (B) Calcium (C) Iron (D) Magnesium
11. The property of a substance to absorb moisture from the air on exposure is called
(A) Osmosis (B) Deliquescence (C) Efflorescence (D) Desiccation
12. Which part of human body skin has greatest number of Sweat glands?
(A) Forehead (B) Forearm (C) Back (D) Palm of the hand
13. Who among the following had started vaccination?
(A) Jonas E. Salk (B) Paul Muller (C) Edward Jenner (D) Robert Frost
14. Hay fever is an allergic reaction to the presence of the following in the air:
(A) Pollen (B) Smoke (C) Dust (D) Moisture
15. Fathometer is used to measure:
(A) Earthquakes (B) Ocean depth (C) Rainfall (D) Sound intensity
16. What is the meaning of the term Topology?
(A) It is the study of places and natural features. (B) Study of hair and its disorders.
(C) It is the study of shape and features of the moon. (D) Study of theological salvation.
17. Out of the following what kind of hackers are considered as good hackers?
(A) Black Hat (B) Gray Hat (C) White Hat (D) Red Hat
18. Long-sight defect could be corrected by using _____ lens.
(A) Concave (B) Convex (C) Diverging (D) None of these
19. Radioactivity was discovered by
(A) Kelvin (B) Rutherford (C) Bacquerel (D) Thomson
20. The densest substance on the Earth is
(A) Platinum (B) Gold (C) Steel (D) Osmium
21. Instrument used for measuring very high temperature is
(A) Pyroscope (B) Pyrometer (C) Seismograph (D) Xylometer

22. In a very low temperature which from the following will freeze at last?
(A) River water (B) Canal water (C) Sea water (D) Water in a lake
23. In general, Comets have _____ orbits.
(A) Elliptical (B) Highly elliptical (C) Circular (D) Parabolic
24. 1 light year = ?
(A) 9.5×10^6 km (B) 9.5×10^9 km (C) 9.5×10^{12} km (D) 9.5×10^{18} km
25. The planets visible to us without using a telescope are _____.
(A) 3 (B) 4 (C) 5 (D) 6
26. Biosensor is used to measure?
(A) Blood glucose level (B) The body pH value
(C) Amount of hemoglobin (D) Salinity in Urine
27. For proper formation of teeth, _____ is essential.
(A) Iodine (B) Zinc (C) fluorine (D) iron
28. Deficiency of _____ causes loss of appetite and poor growth.
(A) Zinc (B) Iodine (C) Copper (D) Iron
29. The Carbon Dioxide in the atmosphere, by volume, is
(A) 0.039% (B) 3.9% (C) 13% (D) 30%
30. The gas, commonly known as “laughing gas”, is
(A) Carbon Dioxide (B) Sulfur Dioxide (C) Nitrous Oxide (D) Sodium Oxide
31. Wind energy is the _____ energy.
(A) Potential (B) Stored (C) Kinetic (D) Mechanical
32. _____ are called the powerhouses of the cell.
(A) Mitochondria (B) Vesicles (C) Lungs (D) Liver
33. The unit used to measure ‘magnetic flux’ is
(A) pascal (B) farad (C) weber (D) henry
34. Bronze is an alloy of
(A) Iron, Carbon (B) Copper, Tin (C) Nickel, Zinc (D) Mercury, Lead
35. Molecules with identical molecular formulae but with different structural formulae are called
(A) Isotopes (B) Isomers (C) Electrode (D) Compound

36. One way of transfer of heat energy is 'convection' which occurs in
 (A) Liquids only (B) Gasses only (C) Liquids and gasses (D) Liquids and solids
37. The key factor in determining the weather is the quantity of _____ in the atmosphere.
 (A) Water vapour (B) Oxygen (C) Carbon dioxide (D) Hydrogen
38. The entropy of the universe is
 (A) Increasing (B) Decreasing (C) Constant (D) None of these
39. Mass Spectrograph was invented by
 (A) Einstein (B) James Chadwick (C) F.W. Aston (D) Rutherford
40. Which is the process of science?
 (A) Observation > Experiments > Hypothesis (B) Hypothesis > Observations > Experiments
 (C) Observation > Hypothesis > Experiments (D) Experiments > Observations > Hypothesis
41. Salty water can be made pure by the method of
 (A) filtration (B) evaporation (C) chromatography (D) distillation
42. The unit of efficiency is
 (A) Volt (B) Watt (C) Joules (D) None
43. The visible cloud of dust and gas in space is called?
 (A) Pulsar (B) Supernova (C) Nebula (D) Galaxy
44. The average salinity of the Earth's oceans in 1 kilogram of sea water is about _____ grams of salt.
 (A) 90 (B) 25 (C) 30 (D) 35
45. The ozone layer was discovered by
 (A) Dobson (B) Albert Einstein (C) Rutherford (D) C. Fabry & H. Buisson
46. Ball-Point pen was invented by:
 (A) Waterman (B) Oscar (C) Wilson (D) Lazlo Biro
47. Logarithm tables were invented by:
 (A) J.J. Thompson (B) John Napier (C) Paul Ehrlich (D) A. G. Bell
48. The velocity of light was first measured by:
 (A) Roemer (B) Einstein (C) Addington (D) Faraday

49. If power of a lens is 2D, what will be its focal length?
(A) 2 m B) 1 m (C) 0.5m (D) 0.2 m
50. Dinosaurs were extinct from the earth, all at once! Approximately how many years ago?
(A) 550 Million B) 650 Million (C) 750 Million (D) 850 Million
51. National Innovation Foundation India is located in which State?
(A) Gujarat B) Madhya Pradesh C) Uttar Pradesh (D) Maharashtra
52. National Mathematics Day is celebrated in India every year on
(A) 15th October B) 28th February (C) 7th November (D) 22nd December
53. Name the Paleobotanist known for his research on the fossils of the Indian subcontinent.
(A) Salim Ali (B) Birbal Sahni (C) Raj Reddy (D) P C Mahalanobis
54. Most of the pure, drinkable water of the earth is in form of
(A) Icebergs (B) Vapor & Clouds (C) River water (D) Oceans
55. The non-stick cookwares are coated with?
(A) Ammonium Sulphate (B) Galvanised Iron (C) Vulcanised Rubber (D) Teflon
56. Name the brightest star in our night sky.
(A) Pole Star (B) Sun (C) Betelgeuse (D) Sirius
57. A company offers one free toffee for every 5 empty toffee wrappers. You have 25 toffees (with wrappers). How many free toffees can you get totally?
(A) 5 (B) 6 (C) 7 (D) 8
58. The outer surface of capsule used for giving medicines is made up of
(A) Paper (B) Protein (C) Starch (D) fat free oil
59. Doctor's Thermometer was invented by:
(A) Celsius (B) Kelvin (C) Louis Pasteur (D) Fahrenheit
60. Which of the following fats decreases blood cholesterol level?
(A) Saturated fats (B) Monounsaturated (C) polyunsaturated (D) None

(5)

P.T.O.

Part II

1. Expand the following Abbreviations (All question are compulsory). (15 Marks)

- | | | |
|------------|-------------|--------------|
| (i) IRAS | (vi) DRDO | (xi) NIV |
| (ii) CCD | (vii) ICMR | (xii) GIP |
| (iii) SSLV | (viii) ISRO | (xiii) FTP |
| (iv) AIIMS | (ix) IISER | (xiv) UPI |
| (v) IISc | (x) LASER | (xv) NASSCOM |

2. Answer any 05 of the following (Between 80 and 100 words). (3X5=15 Marks)

- i. Why our eyes produce tears while cutting or peeling onions?
- ii. Why sunsets or sunrise are red?
- iii. Are spiders insects? Justify your answer.
- iv. Why do stars twinkle?
- v. Why do we get thirsty?
- vi. Why milk is generally white?
- vii. Why does ice float on water?
- viii. Why is photosynthesis important?
- ix. Difference between Homoeothermic and Poikilothermic?
- x. Explain Parasites?
- xi. What do we understand by the meaning of Monoculture?
- xii. Why do people look like their parents?
- xiii. What is CO poisoning?

3. Write short note on any two of the following. (5X2 = 10 Marks)

- | | |
|-------------------------|-----------------------|
| i. James Webb Telescope | iii. OTT |
| ii. World Ozone Day | iv. COVID 19 Pandemic |
| v. Water Footprints | vi. Vaccine |