



Mother Teresa Child Education Trust

Competition Examination-2024

To be filled in by the candidate:

Roll No. _____

[Time: 1Hour]

Candidate Name _____

[Maximum marks: 200]

Q1. What is the focal length of a concave lenses with number-5D?

- (A) 5cm (B) 10cm (C) 15cm (D) 20cm

Q2. Which among the following waves are used in the gemstone industone industry to change white topaz into blue topaz?

- (A) X-Rays (B) Gamma rays (C) Beta Radiation (D) Alpha Radiation

Q3. The recoiling of gun is an example of which of the following?

- (A) Law of conservation of Angular Momentum
(B) Law of conservation of Liner Momentum
(C) Conservation of kinetic energy to potential energy
(D) Law of conservation of energy

Q4. What is the S.I. unit for luminous intensity?

- (A) Mole (B) ampere (C) candela (D) Weber

Q5. Which of the following equation represents the Torricelli's law?

- (A) $(2gh)^{1/2}$ (B) $v^2 = 2gh$ (C) $v = \sqrt{3gh}$ (D) $2gh$

Q6. Who was the first to state the principle of floatation ?

- (A) Isaac Newton (B) Archimedes (C) Aristotle (D) Galileo Galilei

Q7. Which of the following units is the smallest in terms of length?

- (A) Micran (B) nanometer (C) Fermi (D) angstrom

Q8. A Projectile will achieve maximum horizontal range of the following?

- (A) Radius of earth
(B) Height of the Satellite
(C) Mass of the satellite
(D) None of the above

Q9. Why a small liquid drop is in spherical shape?

- (A) Due to surface tension
(B) Due to low viscosity
(C) Due to hydrogen bonding
(D) Due to low density

Q10. Light year is a unit of

- (A) Time (B) Distance (C) Light (D) intensity of light

Q11. Hematite & magnetite are _____ ?

- (A) Iron ores (B) Copper ores (C) manganese ores (D) zinc ores

Q12. Which among the above plays the most important role in ozone depletion?

- (A) Hydrogen (B) Carbon (C) Chlorine (D) flourine

Q13. Which of the following is also knows as Alumina?

- (A) Al_2O_4 (B) Al_2O_3 (C) Al_2O_4 (D) Al_2CO_2

Q14. Propanol belongs to which of the following group ?

- (A) Alcohol (B) Aldehyde (C) Carboxylic acid (D) Ketone

Q15. Which of the following compounds can be made by blowing ozone at dry ice ?

(A) Carbonic acid (B) Carbon dioxide (C) Carbon trioxide (D) Methane

Q16. Which of these is not an addition polymer ?

(A) PVC (B) Nylon 66 (C) Polypropylene (D) All of the above

Q17. Which of these Polymers is used for controlled drug release in the body ?

(A) PLA (B)PHBV (C) PGA (D) PCL

Q18. Which among the following antiseptic compounds is present in Dettol?

(A) Iodine (B) cresol (C) Chloroxylenol (D)Biothional

Q19. Which among the following is a crystalline form of quartz ?

(A) Aluminium (B) Glass (C) Sillica (D) Limestone

Q20. What is the purpose of adding baking soda to the dough?

- (A) To generate moisture
- (B) To give a good flavor
- (C) To give a good color
- (D) To generate carbon dioxide

Q21. Which of the following is not a true amphibian animal?

(A) Tortoise (B) Frog (C) Toad (D) Salamander

Q22. Which of the following vitamins are night blindness ?

(A) Vitamin A (B) Vitamin B (C) Vitamin C (D) Vitamin D

Q23. The A,B,O blood groups were discovered by

- (A) Gregor mendel
- (B) Watson
- (C) Charles Darwin
- (D) Karl Landsteiner

Q24. Malaria is caused by

(A) Protozoa (B) Fungi (C) Virus (D) Bacteria

Q25. What is the study of growing old is called?

(A) Generalogy (B) Genealogy (C) Gynaecology (D) Gerontology

Q26. ____ has ammonia as a chief excretory product in it.

(A) Fish (B) mammals (C) Turtles (D) Reptiles

Q27. What is the study of nests of birds is called ?

(A) Ichnology (B) Myrmecology (C) Craniology (D) Nidology

Q28. When does life originate ?

- (A) Cenozoic era
- (B) Proterozoic era
- (C) Pre-cambrian period
- (D) Mesozoic era

Q29. What is the study of the liver is known as ?

(A) Hepatology (B) Hematology (C) Herpetology (D) Horology

Q30. Louis Pasteur is famous for which theory ?

- (A) Germplasm theory
- (B) The germ theory of diseases
- (C) Cell theory
- (D) Mutation theory

Q31. _____ swim quite well when I was younger.

(A) Could (B) Can (C) must (D) Should

Q32. His forefathers lived _____ Meerpur _____ Maharashtra .

(A) From, to (B) on, in (C) at , in (D) in , at

Q33. The team got carried _____ when they won the championship and started shouting and throwing things around.

- (A) On (B) behind (C) away (D) towards

Q34. You _____ look after your old and sick parents.

- (A) Ought to (B) can (C) might (D) may

Q35. The government is carrying _____ test on growing genetically modified crops.

- (A) Away (B) in (C) from (D) out

Q36. What is the time _____ your watch ?

- (A) By (B) in (C) with (D) on

Q37. Peter _____ at seven o'clock .

- (A) goes up (B) gets (C) gets up (D) wakes

Q38. The work took half _____ hour.

- (A) a (B) an (C) the (D) none

Q39. It is _____ uniform Policy

- (A) a (B) an (C) the (D) no article

Q40. If you _____ no confidence in self , you are twice defeated in life.

- (A) Have (B) having (C) has (D) given up

Q41. Ajit has an average for 9 innings. In the tenth innings, he scores 100 runs thereby increasing his average by 8 runs. this new average is-

- (A) 20
(B) 21
(C) 28
(D) 32

Q42. Find the simple interest on rupees 50200 for 2 years at 6% per annum.

- (A) RS 450
- (B) RS 524
- (C) RS 600
- (D) RS 624

Q43. Find the remainder when $73 \times 75 \times 78 \times 57 \times 197 \times 37$ is divided by 34.

- (A) 32
- (B) 30
- (C) 15
- (D) 28

Q44. 1.14 expressed as a percent of 1.9 is :

- (A) 6%
- (B) 10%
- (C) 60%
- (D) 90%

Q45. How many terms are there in 20, 25, 30-----140 ?

- (A) 22
- (B) 25
- (C) 23
- (D) 24

Q46. If $a : b : c = 3 : 4 : 7$, then the ratio $(a+b+c) : c$ is equal to

- (A) 2:1
- (B) 14:3
- (C) 7:2
- (D) 1:2

Q47. A shopkeeper earns a profit of 12% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price of the book is:

- (A) 45:56

- (B) 45:51
- (C) 47:56
- (D) 47:51

Q48. By selling a bicycle for rs 2,850 a shopkeeper gains 14%. If the profit is reduced to 8%, then the selling price will be :

- (A) RS 2600
- (B) RS 2700
- (C) RS 2800
- (D) RS 3000

Q49. Two buses start from a bus terminal with a speed of 20km/h at interval of 10 minutes. What is the speed of a man coming from the opposite direction towards the bus terminal if he meets the buses at interval at 8 minutes ?

- (A) 3KM/H
- (B) 4KM/H
- (C) 5KM/H
- (D) 7KM/H

Q50. If A and B together can complete a piece of work in 15 days and B alone in 20 days , in how many days can A alone complete the work ?

- (A) 60
- (B) 45
- (C) 40
- (D) 30

Q51. A bank offers 5% compound interest calculated on half yearly basis. A customer deposit rs.1600 each 1st January and 1st July of a year . At the end of the year. The amount he would have gained by way of interest is :

- (A) RS 120
- (B) RS 121
- (C) RS 122
- (D) RS 123

Q52. What is the difference between the compound interest on rs 5000 for 1.5 years at 4% per annum compounded yearly and half-yearly ?

- (A) RS 2.04
- (B) RS 3.06
- (C) RS 4.80
- (D) RS 8.30

Q53. An observer 1.6 m tall is $20\sqrt{3}$ away from a tower, the angle of elevation from his eye to the top of the tower is 30° . The heights of the tower is :

- (A) 21.6M
- (B) 23.2M
- (C) 24.72M
- (D) None of these

Q54. From a point pon a level ground the angle of elevation of the top tower is 30° , if the tower is 100m high, the distance of point P from the foot of the tower is :

- (A) 149M
- (B) 156M
- (C) 173M
- (D) 200M

Q55. A man sold two chairs at rs.1200 each . on one he gained 20% and on the other he loss 20%. His gain or loss in the whole transactions.

- (A) 1%LOSS
- (B) 2% LOSS
- (C) 4% LOSS
- (D) 15 gain

Q56. The harappan civilization was discovered in the year:

- (A) 1901
- (B) 1921
- (C) 1935

(D) 1942

Q57. The Indus valley people traded with the?

- (A) Chinese
- (B) Mesopotamians
- (C) Par thain
- (D) Romans

Q58. The local name Mohenjodaro is?

- (A) Mound of the living
- (B) Mound of the dead
- (C) Mound of the great
- (D) Mound of the survivor

Q59. The Indus valley civilization specialized in ?

- (A) Town planning
- (B) Architecture
- (C) Craftsmanship
- (D) All of these

Q60. The famous figure of a dancing girl found in the excavation of Mohenjodaro was made up of?

- (A) Terracotta
- (B) Steatite
- (C) Bronze
- (D) Red limestone

Q61. Which of the following animals was not known to the Indus valley civilization?

- (A) Bull
- (B) Horse
- (C) Elephant
- (D) Cow

Q62. The archaeological finds from alogmgirpur in Ghaziabad district reflected the?

- (A) Harappa culture
- (B) Vedic culture
- (C) Mauryan culture
- (D) Gupta period culture

Q63. Cotton for textile was first cultivation in?

- (A) Egypt
- (B) Mesopotamia
- (C) Central America
- (D) India

Q64. Rock cut architecture in the harappan culture context has been found at?

- (A) Kalibangan
- (B) Dhlavira
- (C) Kotdiji
- (D) Amri

Q65. Which one of the following was not know to the harappan?

- (A) Construction of well
- (B) Construction of pillars
- (C) Construction of Drain
- (D) Construction of Aches

Q66. Who was the first European to designate Aryan as a face?

- (A) William jons
- (B) H.H Wilson
- (C) Max muller
- (D) General Cunningham

Q67. The staple food of the Vedic Aryan was?

- (A) Barley and rice

- (B) Milk and its products
- (C) Rice and pulses
- (D) Vegetables and fruits

Q68. Who discovered the Indus valley civilization?

- (A) Sir Leonard Wooley
- (B) V.S. Agarwal
- (C) Dayaram Sonhi
- (D) A.L. Basham

Q69. A copper chariot of Harappa times was discovered at?

- (A) Katal
- (B) Rakhigarhi
- (C) Daimabad
- (D) Banawali

Q70. An advanced management system of Harappan times has been unearthed at?

- (A) Dholavira
- (B) Lothal
- (C) Alamgirpur
- (D) None of these

Q71. The largest sugar mill in Asia is located

- (A) Karnataka
- (B) U.P.
- (C) West Bengal
- (D) Maharashtra

Q72. International Common Wealth Day is celebrated every year on_____.

- (A) 22 MAY
- (B) 24 MAY
- (C) 23 MAY
- (D) 25 MAY

Q73. SEBI was set up in

- (A) 1992
- (B) 1980
- (C) 1984
- (D) 1988

Q74. Which railway minister presented the railway budget 6 times in a row?

- (A) John mathai
- (B) Lalu prasad yadav
- (C) Nitish kumar
- (D) Mamta banerjee

Q75. National science day in india is celebrated on

- (A) 30TH APRIL
- (B) 14TH FEBRUARY
- (C) 28TH FEBRUARY
- (D) 23RD MARCH

Q76. Which of the following is our national anthem?

- (A) Jana Gana Mana
- (B) Vandematharam
- (C) Sare Jahanse Achha
- (D) Jhanda Uncha Rahe hamara

Q77. Which is India's national animal?

- (A) Lion
- (B) Elephant
- (C) Tiger
- (D) Cow

Q78. When ISRO was established

- (A) 1955
- (B) 1958
- (C) 15TH AUGUST 1969
- (D) 15TH OCTOBER 1969

Q79. "National youth day " is marked on :

- (A) 12 JANUARY
- (B) 9 JANUARY
- (C) 15 JANUARY
- (D) 18 JANUARY

Q80. Green color in Indian national flag signifies

- (A) Valour
- (B) Sacrifice
- (C) Relation to soil and prosperity
- (D) Truth

Q81. National defence academy is situated at?

- (A) KOLKATA
- (B) DELHI
- (C) PUNE
- (D) DEHRADUN

Q82. On which date the world polio day is observed?

- (A) 21TH OCTOBER
- (B) 29TH OCTOBER
- (C) 24TH OCTOBER
- (D) 26TH OCTOBER

Q83. Books in electronic formats are called

- (A) e-library
- (B) e-books
- (C) e-learning

(D) i-books

Q84. What is the maximum number of members in lok sabha?

- (A) 512
- (B) 542
- (C) 552
- (D) 532

Q85. Which of the following is known as the Diamond city of India?

- (A) Mumbai
- (B) Jaipur
- (C) Surat
- (D) Panna

Q86. "जानने की इच्छा रखने वाला" के लिए एक शब्द है-

- (A) जिजीविषा
- (B) जिज्ञासु
- (C) जिज्ञासा
- (D) ज्ञातज्ञ

Q87. पीछे-पीछे चलने वाला ' वाक्यांश के लिए एक शब्द है-

- (A) अनुचर
- (B) अनुगामी
- (C) अनुवर्ती
- (D) अनुगमनीय

Q88. "थोड़ा नप-तुल भोजन करने वाला" वाक्यांश के लिए उपयुक्त शब्द है-)

- (A) मितव्ययी
- (B) मितव्यय
- (C) मितहारी
- (D) मितहारीने

Q89. गुरु के समीप रहकर अध्ययन करने वाला के लिए एक शब्द है-

- (A) शिष्य
- (B) आश्रमवासी
- (C) विद्यार्थी
- (D) अन्तेवासी

Q90. जो अपने पद से हटाया गया हो के लिए एक उपर्युक्त शब्द होगा-

- (A) पद्रष्ट
- (B) पदानवत
- (C) पदानुगत
- (D) पदच्युत

Q91. " जिसकी पूर्व से कोई आशा न हो वाक्यांश के लिए उपयुक्त शब्द होगा-

- (A) प्रत्याशित
- (B) अप्रत्यासित
- (C) अप्रत्याषित
- (D) अप्रत्याशित

Q92. 'जिस स्त्री का पति जीवित है- उसके लिए उपयुक्त शब्द है-

- (A) पतिव्रता
- (B) सधवा
- (C) विवाहिता
- (D) अनुरक्ता

Q93. जिसक जन्म छोट जाति (निचले वर्ण) में हुआ है ' के लिए उपयुक्त शब्द है- :

- (A) अण्डज
- (B) शूद्र
- (C) अन्त्यज
- (D) अछूत

Q94. निम्नलिखित में से कौन सी क्रिया प्रेरणार्थक है?

- (A) जागना
- (B) सीखना
- (C) बुलाना
- (D) सोना

Q94. 'गीदड़ का पर्यायवाची है—

- (A) सुपर्ण
- (B) कुंजर
- (C) शोणित
- (D) श्रृगाल

Q95. निम्नलिखित में से कौनसा वाक्य शुद्ध है—

- (A) यहाँ अपनी हस्ताक्षर कर दीजिए।
- (B) यहाँ अपना हस्ताक्षर लिख दीजिए।
- (C) यहाँ अपने हस्ताक्षर कर दीजिए।
- (D) यहाँ अपना हस्ताक्षर बना दीजिए

Q96. ' का किस कारक की विभक्ति है?

- (A) संबंध की
- (B) अधिकरण की
- (C) संप्रदान की
- (D) अपादान की

Q97. किस तिथि को हिन्दी को राजभाषा बनाने का निर्णय लिया गया?

- (A) 26 जनवरी 1950 ई०
- (B) 14 सितम्बर 1949 ई०
- (C) 14 सितम्बर 1950 ई०
- (D) 15 अगस्त 1947 ई०

Q98. हिन्दी दिवस किस दिन मनाया जाता है?

- (A) 14 सितम्बर
- (B) 28 सितम्बर
- (C) 10 अक्टूबर
- (D) 11 जून

Q99. निम्न में से कौन सी बोली अथवा भाषा हिंदी के अंतर्गत नहीं आती है?

- (A) बांगरू
- (B) अवधी
- (C) तेलुगु

(D) कन्नौजी

Q100. भारतवर्ष में हिंदी को आप किस वर्ग में रखेंगे?

(A) राष्ट्र भाषा

(B) विभाषा

(C) तकनीकी भाषा

(D) राजभाषा
