

Duration : 60 min.
Class : 8th

Maximum Marks : 180
Subject : SCIENCE



International Talent Search Examination - 2022-23

अंतराष्ट्रीय प्रतिभा खोज परीक्षा - २०२२-२३

Organized by

Savitri Skill Development Institute, Training Partner with
Ministry of Micro Small & Medium Enterprises (MSME), Govt. of India.



TEST BOOKLET

Name :

Class : School:

Father's Name : Father's Occupation :

Mother's Name : Mother's Occupation :

Categories : Gen OBC SC ST

Correspondence Address :

Date of Birth :

Father's Contact No :


Home/Mother's Contact No. :


WhatsApp No. :

Basic Instructions:


- Ensure that your personal data has been entered correctly.
- Immediately after opening the test booklet verify that all the pages are printed properly and are in order. If there is a problem with your test booklet, immediately inform the invigilator. You will be provided with the replacement.
- All questions are compulsory.
- For every correct answer you will be awarded with 4 marks and for all incorrect answer 1 mark will be deducted.
- Directions for answering the questions are given. Read those directions carefully and answer the question by circling the bubble in the OMR Sheet Provided to you. Test booklet/OMR Sheet will be submitted at the end of the examination.
- Follow the instructions given by the invigilator. Students found violating the instructions will be disqualified.
- Rough work can be done separately or on the Question paper.
- Please fill the bubbles in OMR sheet with Blue or Black pen only.
- Do not tear the question paper or OMR sheet else you will be disqualified in the examination.

CLASS-8 (SCIENCE)


- Q.1 Choose the pair of numbers that come next in the series 9, 11, 33, 13, 15, 33, 17.
 a) 33, 19 b) 33, 35 c) 19, 33 d) 19, 21
- Q.2 Which of the following has the highest calorific value?
 a) Petrol b) Natural gas c) Coke d) Kerosene
- Q.3 Of the four choices, choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.
- 



a)




b)



c)



d)
- Q.4 Which force prevents us from slipping while walking on the road?
 a) Muscular force of our body b) Gravitational pull by the Earth c) Frictional force d) Balanced forces of nature
- Q.5 Which of the following is called the master gland of the human body?
 a) Thyroid b) Adrenal c) Islets of langerhans d) Pituitary
- Q.6 Identify the phase of the moon.
 The moon is in between Earth and Sun and the dark side of the moon faces towards Earth.
 a) New moon b) Full moon c) Half moon d) None of these
- Q.7 Which microorganism present in the intestine of human and animals helps in the synthesis and digestion of variety of foods?
 a) Virus b) Bacteria c) Algae d) Fungi
- Q.8 An object placed 4 m from a plane mirror is shifted by 0.5 m away from the mirror. What is the distance between the object and its image?
 a) 4 m b) 3.5 m c) 9 m d) 5 m
- Q.9 Cup is to coffee as bowl is to _____.
 a) Soup b) Dish c) Spoon d) Food
- Q.10 Chemical compound whose molecules ionize into positively and negatively charged ions in a solution are called _____.
 a) Electrolyte b) Non-electrolyte c) Molten metal d) Salt solution
- Q.11 There are four balls A, B, C and D which displace 10 mL, 24 mL, 15 mL and 12 mL of a liquid respectively, when immersed completely. Which ball will undergo the maximum apparent loss in weight?
 a) A b) B c) C d) D
- Q.12 To which of the following phylas does the animal given below belongs to?
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- a) Porifera b) Aschelminthes c) Annelida d) Arthropoda
- Q.13 Which of the following vectors carries the virus that causes yellow fever?
 a) Aedes mosquito b) Culex mosquito c) Blackfly d) Putsi fly
- Q.14 A car starts from rest and accelerates uniformly over a time of 5.21 seconds for a distance of 110 m. Determine the acceleration of the car.
 a) 6.10 ms⁻² b) 8.10 ms⁻² c) 10.10 ms⁻² d) 12.10 ms⁻²
- Q.15 Two identical balls are at rest side by side at the bottom of a hill. Sometime after ball A is kicked up the hill, ball B is given a kick up the hill. Ball A is headed downhill when it passes ball B headed up the hill. At the instant when ball A passes ball B, it has the same
 a) Position and velocity as ball B b) Position and acceleration as ball B
 c) Velocity and acceleration as ball B d) Displacement and velocity as ball B
- Q.16 Which of the following statements is true about tissue?
 a) Cells with similar structures but have different functions. b) A diverse group of cells that perform similar functions.
 c) Cells with similar structures and functions. d) Cells with different structures but the same function.

Q.17 The heart of a man pumps 4 liters of blood per minute at a pressure of 130 mm of mercury. If the density of mercury is 13.6 g cm⁻³, calculate the power of the heart. (Take g = 9.8 m/s²)

- a) 1.144 W b) 2.145 W c) 1.155 W d) 3.155 W

Q.18 Which of the following is a pair of isobars?

1. ¹⁵N₇, ¹⁶O₈ 2. ¹³C₆, ¹⁴N₇ 3. ¹³C₆, ¹³N₇ 4. ¹²C₆, ¹³O₈
a) Only 1 b) Only 3 c) Both 1 and 3 d) Both 2 and 4

Q.19 Which of the following cells is similar to the cell shown below?



- a) A sperm b) A cheek cell c) A nerve cell d) A mature RBC

Q.20 Which of the following tissues supports internal organs and helps in the repairing of tissues?



- a) P b) Q c) R d) S

Q.21 Which of the following is NOT a characteristic feature of sexual reproduction?

- a) It involves the fusion of two reproductive cells.
b) It is common in most organisms.
c) Fertilisation may take place inside or outside the body of the female.
d) The offspring receives its characteristics from one parent only.

Q.22 The property due to which non-metals break up into pieces on hammering is called _____.

- a) Malleability b) Ductility c) Sonority d) Brittleness

Q.23 Two or more crops that are grown together in same field to fulfill the nutrient requirement of each other is called _____.

- a) Transplantation b) Crop rotation c) Mixed cropping d) Fallowing

Q.24 Linen is an example of _____.

- a) Plant fibre b) Animal fibre c) Synthetic fibre d) Artificial fibre

Q.25 If it is possible to make a meaningful word from the 3rd, 5th, 6th, 8th, 10th and 12th letters of the word QUADROPHONIC using each letter only once, third letter of the word would be your answer. If more than one such word can be formed, your answer would be S and if no such word can be formed, answer is M.

- a) C b) S c) M d) H

Q.26 The interlocking of two surfaces give rises to _____.

- a) Electrostatic force b) Magnetic force c) Frictional force d) Gravitational force

Q.27 Which of the following resources can replenish themselves by quick recycling and replacement within a reasonable time, if managed properly?

- a) Coal b) Soil c) Natural gas d) Sunlight

Q.28 What does the blue zone in an L.P.G. flame indicate?

- a) Unburnt vapour b) Partial decomposition
c) Moderately hot d) Hottest zone of complete combustion

Q.29 Which unit is used to measure the loudness of sound?

- a) m/s b) hertz c) Decibel d) Newton

Q.30 Embellishing the Truth occurs when a person adds fictitious details or exaggerates facts or true stories. Which situation below is the best example of Embellishing the Truth?

- a) Isabel goes to the theater, and the next day, she tells her coworkers she thought the play was excellent.
b) The realtor describes the house, which is eleven blocks away from the ocean, as prime waterfront property.
c) During the job interview, Fred, who has been teaching elementary school for ten years, describes himself as a very experienced teacher.
d) The basketball coach says it is likely that only the most talented players will get a college scholarship.

Q.31 On what factors does the frequency of sound depend in wind instruments?

- a) The length of the air column b) The breadth of the air column
c) The force with which the wind is blown d) All of the above

Q.32 Spot the odd one out.

- a) Street b) Freeway c) Interstate d) Expressway

