

Duration : 60 min.
Class : 7th

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-7 (SCIENCE)

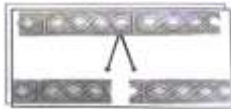
- Q.1 Magnesium hydroxide, obtained when magnesium oxide is dissolved in water, is _____.
- a) a base b) an indicator c) an acid d) a dissolving agent
- Q.2 A car having an odometre reading 234562 km as recorded at 6 am is moving at a speed of 2 km/min. What would be the odometre reading at 6:40 am?
- a) 234602 km b) 234642 km c) 234565 km d) 234655 km
- Q.3 Choose the missing term out of the given alternatives:
DF, GJ, KM, NQ, RT, ?
- a) UW b) YZ c) XZ d) UX
- Q.4 An electromagnet is one which behaves as a magnet when current is _____.
- a) stopped from flowing through it b) allowed to flow through
c) not allowed to flow through d) none of these
- Q.5 Complete the following equation:- $2 \text{Mg (s)} + \text{O}_2 \text{(g)} \rightarrow$
- a) 2Mg(s) b) 2MgO (s) c) 2MgO (l) d) MgO(s)
- Q.6 Which of the following gives rise to new plant by roots?
- a) Sweet potato b) Ginger c) Rose d) Orchids
- Q.7 If addition stands for S, subtraction stands for A, multiplication stands for D and division stands for M then, $24 \text{ S } 34 \text{ A } 28 \text{ M } 7 \text{ D } 4 = ?$
- a) 12 b) 18 c) 54 d) 42
- Q.8 In summers, if milk is not refrigerated, it becomes sour. Which of the following is added by milkmen to fresh milk to prevent the milk from spoiling?
- a) Caustic soda b) Potash alum c) Baking soda d) Lime water
- Q.9 Which of these statements is NOT true about white blood cells?
- a) They are white in colour and smaller than red blood cells. b) They do not have a definite shape.
c) They protect us from disease-causing germs by producing antibodies. d) They can engulf germs that enter our bloodstream.
- Q.10 Choose the correct option and complete the following sentence:
Water is an inexhaustible, renewable resource, still, there is a shortage of water at many places of the world. It is because _____.
- a) much water available to us is not in the usable form b) 97.4% of all available water is frozen in glaciers and polar ice caps
c) we cannot make use of water that is present in rivers and lakes d) we cannot make use of rainwater.
- Q.11 Fill in the blank with the correct option.
Air moves from a region of ____ (1) _____ pressure to a region of ____ (2) _____ pressure.
- a) (1)-high and (2)-high b) (1)-low and (2)-low c) (1)-high and (2)-low d) (1)-low and (2)-high
- Q.12 Which of the following statements is/are true?
1. Digestion of starch starts in the stomach.
 2. The tongue helps in mixing food with saliva.
 3. The gall bladder temporarily stores bile.
 4. The ruminants bring back swallowed grass into their mouth and chew it for some time.
- a) 1 and 2 are true b) 1, 2 and 3 are true c) 2, 3 and 4 are true d) 1, 2, 3 and 4 are true
- Q.13 Which statement is true about parasitic plants?
- Statement 1: Organisms which break glucose into alcohol and carbon dioxide.
Statement 2: Organisms which draw nutrition from living tissues of other plants.
- a) Statement 1 is correct b) Statement 2 is correct
c) Both the statements are correct d) Both the statements are incorrect
- Q.14 On what factors does the rate of evaporation depend?
1. The temperature of the liquid
 2. Area of the liquid exposed to heat
 3. Wind blowing over the liquid
- a) Only 1 b) Only 2 and 3 c) Only 1 and 2 d) 1, 2 and 3
- Q.15 Low atmospheric pressure exists on the earth in which of the following latitudes?
- a) At the equator only b) At 30° N and S
c) At the poles d) At the equator and at 60° N and S.

Q.16 Which labelled arrow represents the movement of water?



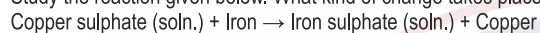
- a) P b) Q c) R d) S

Q.17 Which type of reproduction is shown in the diagram given below?



- a) Binary fission b) Fragmentation c) Sporulation d) Budding

Q.18 Study the reaction given below. What kind of change takes place in the given reaction?



- a) Chemical change b) Physical change c) Biochemical d) Both a and b

Q.19 What role does the insect play in the insectivorous plant?

- a) Fertilization process b) Provides nutrients to the plant
c) Dispersal of seeds d) Provides carbon dioxide to the plant

Q.20 A compass is often used to indicate direction. Which one of the following is not true about the compass needle?

- a) It is made of steel. b) It must be freely suspended in order to work.
c) It is a magnetised object. d) It always points in the East-West direction.

Q.21 Which plant bears spiny seeds with hooks to be dispersed by animals?

- a) Sunflower b) Castor c) Xanthium d) Balsam

Q.22 (2,3), (3,5), (5,7), (7,11), (11,13), (?)

- a) (13,15) b) (15,16) c) (13,17) d) (13,19)

Q.23 Divya while studying the circuit of an electric fan observes that a plug connected to a fan contains a 3 A fuse. Why is the fuse needed?

- a) To reduce the voltage across the fan. b) To protect the fan from damage caused by a large current
c) To make it easier for the current to flow d) To decrease the resistance of the circuit

Q.24 Mohan saw a plant which he thought to be a legume and wanted to see if it had nitrogen-fixing bacteria. What would he look for?

- a) Absence of root hairs b) An enlarged taproot
c) Nodules present on the root d) An extensive fibrous root system

Q.25 What happens if you place a compass near a current conducting wire?

- a) The needle in the compass gets deflected. b) The needle in the compass gets charged.
c) The needle in the compass becomes hot. d) The needle in the compass glows brightly.

Q.26 Some bases along with their sources are given below. Which of them is incorrectly matched?

- a) Calcium hydroxide - Lime water b) Ammonium hydroxide - Window cleaner
c) Magnesium hydroxide - Whitewash d) Potassium hydroxide - soap

Q.27 Find out the two signs to be interchanged for making following equation correct: $6 / 3 + 2 - 8 \times 6 = 2$

- a) + & x b) - & / c) % & / d) x & /

Q.28 Which mirror forms image which is erect and same in size as that of object?

- a) Convex lens b) Concave mirror c) Convex mirror d) Plane mirror

Q.29 Fill in the blank:

The average weather pattern taken over a long time is called the _____.

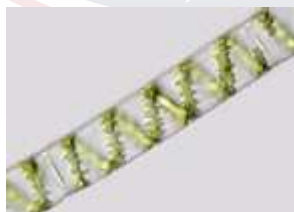
- a) Rainfall of the place b) Climate of the place c) Temperature of the place d) Humidity of the place

Q.30 Choose the correct option which will complete the following passage:

_____ are synthesised by plants through the process of photosynthesis. These are made of carbon, hydrogen and _____. These are used to synthesise other components of food such as proteins and fats.

- a) Vitamins, Nitrogen b) Carbohydrates, Nitrogen c) Carbohydrates, Oxygen d) Vitamins, Oxygen

- Q.31 A carnivore with stripes on its body moves very fast while catching its prey. Where does it is most likely to be found?
 a) Polar regions b) Oceans c) Deserts d) tropical rainforests
- Q.32 An electromagnet is one which behaves as a magnet when current is _____.
 a) stopped from flowing through it b) allowed to flow through
 c) not allowed to flow through d) none of these
- Q.33 An expert agriculturist suggested the farmer minimize the use of chemical fertilizers and instead use biofertilizers as they have many advantages over chemical fertilizers. Which of the following is not true regarding biofertilizers?
 a) They are economical. b) They will least pollute the lake.
 c) They are renewable. d) They require large set-up for their production.
- Q.34 Read the following statements and choose the correct option:
 Statement 1: Chewing breaks down the food into small pieces and aids in digestion.
 Statement 2: Chewing increases the surface area of food for the saliva to act upon
 a) Statement 1 is correct and statement 2 is incorrect b) Statement 1 is incorrect and statement 2 is correct
 c) Both the statements are correct d) Both the statements are incorrect
- Q.35 By which mode of transmission of heat does air get heated up?
 a) Conduction b) Convection c) Radiation d) Diffusion
- Q.36 Dia was performing an experiment which includes the following steps:
 Step 1: Two drops of sulphuric acid were added to 1 g of copper sulphate powder and then a small amount of hot water was added to dissolve it.
 Step 2: On cooling, beautifully blue coloured crystals got separated.
 Identify the changes that took place in step 1 and step 2.
 a) Step 1 - Physical change, Step - 2 Chemical change b) Step 1 - Chemical change, Step - 2 Chemical change
 c) Step 1 - Physical change, Step - 2 Physical change d) Step 1 - Chemical change, Step - 2 Physical change
- Q.37 Some bases along with their sources are given below. Which of them is incorrectly matched?
 a) Calcium hydroxide - Lime water b) Ammonium hydroxide - Window cleaner
 c) Magnesium hydroxide - Whitewash d) Potassium hydroxide - soap
- Q.38 Which among the following is absent in small children?
 a) Incisor b) Canine c) Pre molar d) Molar
- Q.39 Which among the following part of India is most vulnerable to cyclones?
 a) North coast b) West coast c) South coast d) East coast
- Q.40 Which of the following is a parasitic plant?
 a) Cactus b) Hydrilla c) Cuscuta d) Cucumber
- Q.41 When we breathe in air, we breathe in other gases which are not needed by our body.
 How does the body deal with these gases?
 a) The tiny hairs in the nose filter them out. b) These gases are exhaled out instantly, letting in only the useful gases.
 c) The lungs absorb these gases and send them out as wastes. d) The lungs convert these gases to oxygen and water vapour.
- Q.42 The wool yielding animals are:
 a) sheep b) goat c) yak d) all of these
- Q.43 The mode of reproduction used by the organism shown above is:



- a) budding b) spore formation c) vegetative propagation d) fragmentation
- Q.44 Fill in the blank: The best topsoil for growing plants is _____.
 a) loam soil b) black soil c) red soil d) None of these
- Q.45 The chemical name of milk of magnesia is:
 a) magnesium hydroxide b) sodium hydroxide c) sodium chloride d) None of these