

6th Std. – ENGLISH

THE MUMBAI SCIENCE TEACHERS' ASSOCIATION

DR. HOMI BHABHA BAL VAIDNYANIK COMPETITIVE EXAMINATION

QUESTION BOOKLET

DATE OF EXAMINATION : 4TH SEPTEMBER 2010

TIME : ONE HOUR THIRTY MINUTES

MARKS : 100

ROLL NO. :

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EXAMPLE

14	परीक्षार्थी क्रमांक CANDIDATE'S ROLL NO.							
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①	●	①	①	●	①	①	①	①
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③	③	③	③	③	③	●	③	③
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⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	●
●	⑥	⑥	⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	●	⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	●	⑧	⑧	⑧
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IMPORTANT

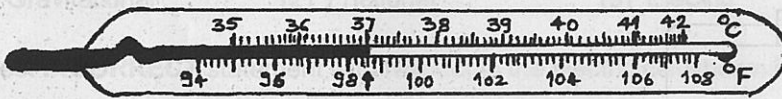
Please write **your Roll number** in the row of boxes in column No. 14 of your **ANSWERSHEET** and darken the oval that corresponds to each of the numerals as shown in the example.

INSTRUCTIONS :

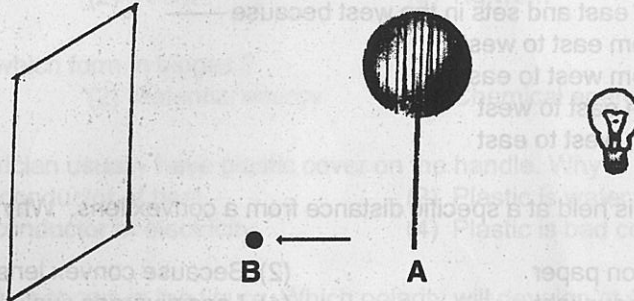
- Write your Roll Number on this test booklet in the space provided above.
- This test booklet contains 100 Questions.
- Each question carries 1 mark.
- Check to make sure that you have received the appropriate test booklet for your standard/medium.

6th Std. – ENGLISH

- Q.1.** In which type of motion the direction keeps on changing continuously ?
 (1) Circular motion (2) Periodic motion (3) Random motion (4) Linear motion
- Q.2.** Find odd one out.
 (1) Chisel (2) Hammer (3) Knife (4) Screw
- Q.3.** Select **INCORRECT** statement.
 (1) On Moon, we cannot drink any liquid with a straw.
 (2) On Moon, we can jump much higher than on earth.
 (3) On Moon, we can hear a person from a long distance.
 (4) On Moon, temperature difference is very high between day and night.
- Q.4.** Find odd one out.
 (1) Brass (2) Iron (3) Nickel (4) Alnico
- Q.5.** Approximately how much cloth is required to stitch a shirt of an average man ?
 (1) 0.5 m (2) 1 m (3) 2 m (4) 4 m
- Q.6.** Observe the diagram and select the correct option.



- (1) It is showing temperature of 37°F
 (2) It's range of temperature measurement is, 35° to 108°F
 (3) It is indicating normal human body temperature
 (4) It can be used to measure the temperature of boiling water
- Q.7.** A lamp, a ball and a paper are kept as shown in the figure below. What will be the change in the shadow, if the ball is moved from A to B ?



- (1) Become large (2) Remain same (3) Become small (4) Get distorted
- Q.8.** How many quintals of rice make 1 metric ton ?
 (1) 10 (2) 100 (3) 1,000 (4) 10,000
- Q.9.** A solar cell converts _____
 (1) chemical energy to light energy (2) light energy to electrical energy
 (3) electrical energy to light energy (4) light energy to chemical energy
- Q.10.** Force applied on object may change its _____
 (1) shape (2) size (3) motion (4) All of these

Q.11. In the given figure, what is represented by A, B, C ?



- (1) A – Effort, B – Fulcrum, C – Load
- (2) A – Fulcrum, B – Load, C – Effort
- (3) A – Load, B – Effort, C – Fulcrum
- (4) A – Effort, B – Load, C – Fulcrum

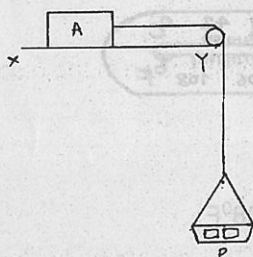
Q.12. A car is moving at a speed of 40 Km./hr. How many hours will it take to cover a distance of 100 Km. ?

- (1) 25
- (2) 2.5
- (3) 4
- (4) 0.40

Q.13. Tubelight glass : Semitransparent :: Mirror glass : _____

- (1) Non luminous
- (2) Transparent
- (3) Reflector
- (4) Opaque

Q.14. Observe the diagram. A woden block 'A' is being moved by adding weights in pan (P). What is the direction of frictional force between block 'A' and the surface on which it is moving ?



- (1) From X to Y
- (2) From Y to X
- (3) From the block to the surface
- (4) From the surface to the block

Q.15. The sun rises in the east and sets in the west because _____

- (1) Earth moves from east to west
- (2) Earth moves from west to east
- (3) Sun moves from east to west
- (4) Sun moves from west to east

Q.16. In sunlight, a paper is held at a specific distance from a convex lens. Why does it start burning after some time ?

- (1) Due to sunlight on paper
- (2) Because convex lens gets heated
- (3) Lens converges sunlight
- (4) Lens diverges sunlight

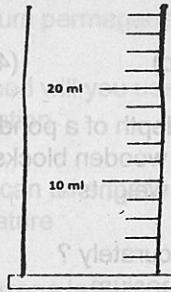
Q.17. Ram drops a ball from the terrace. Which force acts on the ball when it is dropped ?

- (1) Force applied by Ram
- (2) Force of air
- (3) Gravitational force
- (4) No force acts

Q.18. Which of the following is the best conductor of electricity ?

- (1) Gold
- (2) Silver
- (3) Copper
- (4) Aluminium

Q.19. Observe the measuring cylinder. What is the minimum quantity of liquid that can be measured by it ?



- (1) 1 ml. (2) 2 ml. (3) 10 ml. (4) 20 ml.

Q.20. To find the amount of work done, which of the following quantities must be measured ?

(a) displacement (b) mass (c) force (d) energy

- (1) (a) and (b) (2) (b) and (c) (3) (c) and (d) (4) (a) and (c)

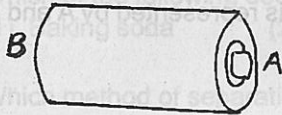
Q.21. The time 21.30 written on a railway time table means it is —

- (1) 8.30 p.m. (2) 9.30 p.m. (3) 9.30 a.m. (4) 10.30 p.m.

Q.22. During winter due to which force, synthetic clothes stick to the body ?

- (1) Gravitational (2) Frictional (3) Electric (4) Electrostatic

Q.23. Select **INCORRECT** statement with respect to the electric cell shown in the diagram :



- (1) 'A' pole is positive (2) The cell converts electric energy
(3) The cell contains chemicals (4) 'B' pole is negative

Q.24. One Pascal pressure = _____ Pressure.

- (1) N/m (2) N/cm² (3) Kg.wt/m² (4) N/m²

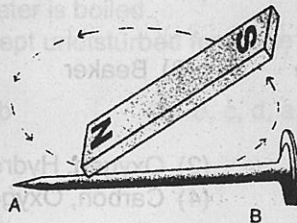
Q.25. Energy is stored in which form in biogas ?

- (1) Kinetic energy (2) Potential energy (3) Chemical energy (4) Heat energy

Q.26. Pliers used by electrician usually have plastic cover on the handle. Why ?

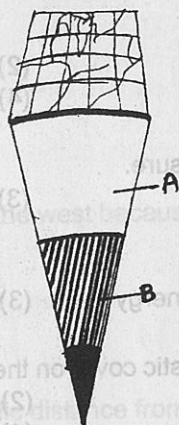
- (1) Plastic is a bad conductor of heat (2) Plastic is water resistant
(3) Plastic is good conductor of electricity (4) Plastic is bad conductor of electricity

Q.27. A nail is magnetized as shown in the figure. Which polarity will develop at A and B ?



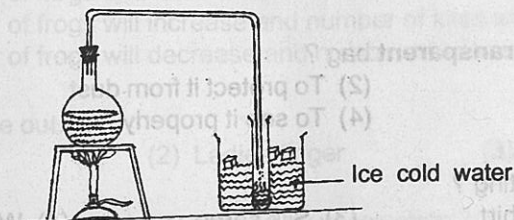
- (1) A – North, B – North (2) A – North, B – South
(3) A – South, B – South (4) A – South, B – North

- Q.28.** Which of the following is required for the formation of a shadow ?
 (a) source of light (b) opaque object (c) screen
 (1) Only (a) (2) (a) and (b) (3) (b) and (c) (4) (a), (b) and (c)
- Q.29.** Which of the following device is appropriate to measure the depth of a pond ?
 (1) Meter tape (2) Rope with wooden blocks
 (3) Rope with markings (4) Rope with weights
- Q.30.** Which metal is used in atomic clocks to measure the time accurately ?
 (1) Silver (2) Silicon (3) Caesium (4) Calcium
- Q.31.** Red glass is obtained from which of the following materials ?
 (1) Sand and washing soda (2) Sand and soda bicarb
 (3) Reddish rock and coal (4) Reddish rock and washing soda
- Q.32.** What is the difference between making of furniture from wood and burning of wood ?
 (1) First is useful and second is harmful change
 (2) First is physical and second is chemical change
 (3) First is fast and second is slow change
 (4) First is periodic and second is non-periodic change
- Q.33.** Parth is preparing lemonade by adding salt, sugar and ice in lemon juice. For quick preparation, what sequence should be followed ?
 (1) Sugar – Salt – Ice (2) Ice – Sugar – Salt
 (3) Sugar – Ice – Salt (4) Salt – Ice – Sugar
- Q.34.** Observe the diagram of internal structure of the earth. What is represented by A and B ?



- (1) A – crust; B – core (2) A – mantle; B – crust
 (3) A – mantle; B – core (4) A – core; B – mantle
- Q.35.** Glass : Test Tube :: Ceramic : _____
 (1) Tripod stand (2) Mortar and pestle (3) Beaker (4) Test tube holder
- Q.36.** Which elements are present in sugar ?
 (1) Oxygen, Hydrogen, Nitrogen (2) Oxygen, Hydrogen, Carbon
 (3) Carbon, Hydrogen, Nitrogen (4) Carbon, Oxygen, Nitrogen
- Q.37.** Hydrosphere includes _____
 (1) water from rivers, seas and oceans (2) ice from the poles
 (3) water vapour in the atmosphere (4) All of these

- Q.38.** The components of which of the following substances retain their properties ?
 (1) Soap (2) Smoke from car exhaust
 (3) Potassium permanganate (4) Stainless steel
- Q.39.** Which method will you use to obtain pure alum from its solution ?
 (1) Evaporation (2) Filtration (3) Sublimation (4) Distillation
- Q.40.** No change can take place without some change in ———
 (1) temperature (2) mass (3) energy (4) volume
- Q.41.** How does ozone layer protect us ?
 (1) By absorbing Carbon dioxide (2) By absorbing ultra violet rays
 (3) By absorbing infrared rays (4) By absorbing sunlight
- Q.42.** Find the **CORRECT** statement ———
 (1) Plants help in soil erosion.
 (2) Embankments are built across the slopes of hills to avoid soil erosion.
 (3) Stray animals help to stop the soil erosion.
 (4) To prevent the soil erosion, the speed of flowing water is increased
- Q.43.** All rocks are made up of ———
 (1) Lava (2) Sediments (3) Minerals (4) Soil
- Q.44.** Find odd one out.
 (1) Leather shoes (2) Newspaper (3) Bisleri bottle (4) Bamboo mat
- Q.45.** Which of the following does not occupy definite space ?
 (1) Baking soda (2) Carbon monoxide (3) Camphor (4) Hydrochloric acid
- Q.46.** Which method of separation is shown in the figure ?



- (1) Boiling (2) Evaporation (3) Distillation (4) Crystallization
- Q.47.** Vijay has followed some steps to get pure water from muddy water. Arrange them in correct order.
 (a) Water in the beaker is filtered with filter paper.
 (b) Upper clear water is poured in another beaker.
 (c) Stirred alum in water.
 (d) Filtered water is boiled.
 (e) Water is kept undisturbed for some time.
- (1) c, a, d, e, b (2) b, c, d, a, e (3) c, e, b, a, d (4) e, c, a, d, b

- Q.48.** Why disposal of garbage has become a serious problem in big cities ?
 (1) Garbage is collected in large quantities.
 (2) Garbage contains materials like plastic and thermocol which do not decompose.
 (3) Garbage is not separated into wet garbage and dry garbage.
 (4) All above
- Q.49.** Nowadays we get anodized cooking utensils. How are they made ?
 (1) Coating of tin on copper
 (2) Coating of zinc on iron
 (3) Coating of aluminium oxide on aluminium
 (4) Coating of paint on aluminium
- Q.50.** Coal is what type of rock ?
 (1) Igneous
 (2) Sedimentary
 (3) Metamorphic
 (4) Sandy
- Q.51.** Preparation of dal fry involves ———
 (1) physical change
 (2) chemical change
 (3) both physical and chemical change
 (4) quick change
- Q.52.** What work is done by charkha ?
 (1) To remove seeds from cotton ball
 (2) To make thread from cotton
 (3) To weave fabric from yarn
 (4) To colour the yarn
- Q.53.** In which type of solution, more salt can be dissolved ?
 (1) Homogeneous
 (2) Saturated
 (3) Non-homogeneous
 (4) Unsaturated
- Q.54.** Which gas was responsible for Bhopal gas tragedy ?
 (1) Carbondioxide
 (2) Methane
 (3) Methyl isocyanate
 (4) Methyl chloride
- Q.55.** Why is the milk powder free of germs ?
 (1) It is in solid form.
 (2) It is manufactured by using heat.
 (3) The milk used is standardised.
 (4) Added chemicals make it germ-free.
- Q.56.** Why readymade shirts are kept in a **transparent bag** ?
 (1) Shirt does not get creased
 (2) To protect it from dust
 (3) It becomes easy to store
 (4) To see it properly
- Q.57.** Identify the cloth that will melt on heating ?
 (1) Khadi kurta
 (2) Rayon shirt
 (3) Silk saree
 (4) Woolen shawl
- Q.58.** Components of which of the following mixtures can be separated using decantation method ?
 (1) Turmeric and water
 (2) Ajinomoto and water
 (3) Blue vitriol and water
 (4) Rock salt and water
- Q.59.** Why does cotton ball shrink in water ?
 (1) It's mass decreases.
 (2) Because of pressure of water.
 (3) The air escape out from fibres.
 (4) State of the cotton changes.
- Q.60.** Find odd one out.
 (1) Melting of wax
 (2) To bake a cake
 (3) Breaking of an egg
 (4) Clarifying butter
- Q.61.** During rainy season which of the following diseases spreads the most ?
 (1) Dysentery
 (2) Tetanus
 (3) Chicken pox
 (4) Tuberculosis
- Q.62.** Find odd one out.
 (1) Butterfly
 (2) Spider
 (3) Honey bee
 (4) Ant

- Q.63.** Idli batter releases carbon dioxide and its volume and temperature increases. Use this information and select the correct option.
- (1) It is living. (2) It is non-living.
(3) Initially it is non-living and later it is living. (4) Can't say.
- Q.64.** Which organ is protected by vertebral column ?
- (1) Wind pipe (2) Heart (3) Spinal cord (4) Nerve
- Q.65.** At which of the following places, the seed germination will be at its best ?
- (1) Marshy area (2) River delta (3) Desert area (4) North pole
- Q.66.** Why rabbits hop instead of walking ?
- (1) They like to hop.
(2) They can move faster by hopping than by walking.
(3) Their hind limbs are strong and longer than their forelimbs.
(4) Their forelimbs are strong and longer than their hind limbs.
- Q.67.** Find odd one out.
- (1) Mushroom (2) Algae (3) Fern (4) Spirogyra
- Q.68.** If your friend has sprain in his leg, what first aid will you give him ?
- (1) Apply tourniquet (2) Wash with water
(3) Wrap an elastic bandage (4) Apply antiseptic cream
- Q.69.** The minute sacs in the lungs are called as —
- (1) Trachea (2) Oesophagus (3) Alveolus (4) Diaphragm
- Q.70.** Frog → snake → kite. In this food chain, if number of snakes decreases, what will be the effect on the number of frogs and kites ?
- (1) Number of frogs and kites will increase.
(2) Number of frogs and kites will decrease
(3) Number of frogs will increase and number of kites will decrease
(4) Number of frogs will decrease and number of kites will increase
- Q.71.** Find odd one out.
- (1) Jamun (2) Ladies finger (3) Drumstick (4) Papaya
- Q.72.** Which disease cannot be controlled by vaccination ?
- (1) Measels (2) Typhoid (3) Cold (4) Tetanus
- Q.73.** Which part of our body primarily does the following things :
- (a) Protection (b) Excretion (c) Knowledge of surroundings
- (1) Eye (2) Ear (3) Skin (4) Nose
- Q.74.** Why Global Warming is considered a serious environmental threat ?
- (1) Ice caps on the poles will melt due to this
(2) some islands will get drowned in the ocean
(3) Rivers like Ganga and Brahmaputra will get heavy floods
(4) All above
- Q.75.** Which of the following is digested by ptyalin ?
- (1) Starch (2) Fats (3) Sugar (4) Protein
- Q.76.** Which of the following will supply protective nutrients ?
- (1) Bread (2) Dal (3) Butter (4) Carrot juice

- Q.77.** What is the life span of dog ?
 (1) 2 to 4 years (2) 16 to 18 years (3) 30 to 40 years (4) 25 to 30 years
- Q.78.** What is the effect of noise pollution on us ?
 (1) Deafness (2) Headache (3) Loss of concentration (4) All of these
- Q.79.** Why does food poisoning prove harmful ?
 (1) Taste of the food changes.
 (2) Bacteria enter our body through food.
 (3) Viruses enter our body through food.
 (4) Poisonous substances enter our body through food.
- Q.80.** Kidney belongs to which of the following systems ?
 (1) Nervous system (2) Circulatory system (3) Excretory system (4) Digestive system
- Q.81.** What type of seeds are found in plants that grow in or near water ?
 (1) Small and winged (2) Surrounded by fleshy fruit
 (3) That can float in water (4) Having stiff hair or hook on them
- Q.82.** Which of the following causes conversion of stone to soil ?
 (a) Sun (b) Plants (c) Rain (d) Air
 (1) (a), (b) and (c) (2) (b) and (d) (3) (a) and (c) (4) (a), (b), (c) and (d)
- Q.83.** Select the **CORRECT** statement.
 (1) Cobra has hair on it's head (2) Cockroaches have feathers
 (3) Salamanders have moist skin (4) Bulls have scales on their legs.
- Q.84.** In the given figure a, b, c represent which type of joint ?



- (1) a – ball and socket, b – hinge, c – gliding (2) a – hinge, b – gliding c – ball and socket
 (3) a – gliding b – hinge c – ball and socket (4) a – gliding b – ball and socket c – hinge
- Q.85.** Horse : Terrestrial :: Tortoise : _____
 (1) Terrestrial (2) Aquatic (3) Amphibious (4) Vertebrate
- Q.86.** Which of the following things are seen in plants that grow in dry climate ?
 (a) Leaves are long (b) Stem is green and flat
 (c) Roots are long (d) They have tendrils
 (1) (a) and (b) (2) (b) and (c) (3) (c) and (d) (4) (a) and (d)

- Q.87. Cow is a ———
 (1) primary consumer (2) primary producer
 (3) secondary consumer (4) (1) and (2) both
- Q.88. Why should we have dietary fibres in our food ?
 (1) Fibres provide much more energy
 (2) Fibres protect our body from diseases
 (3) Fibres help to get rid of undigested food
 (4) Fibres help in water retention
- Q.89. Which of the following will lead to ecofriendly farming ?
 (a) maximum use of pesticides
 (b) maximum use of chemical fertilizers
 (c) maximum use of compost
 (d) use of bio pesticides
 (1) (a) and (b) (2) (b) and (c) (3) (c) and (d) (4) (a) and (d)
- Q.90. Select the correct option. Pomphret is ———
 (1) Invertebrate and viviparous animal (2) Invertebrate and oviparous animal
 (3) Vertebrate and viviparous animal (4) Vertebrate and oviparous animal
- Q.91. Which of the following fuels will cause minimum pollution ?
 (1) Petrol (2) Diesel (3) Gasoline (4) CNG
- Q.92. Every two weeks a mucous layer is formed in the stomach. Why ?
 (1) Otherwise stomach itself will get digested. (2) To avoid resistance to digestion
 (3) To keep the action of HCL smooth (4) To help the digestive juices
- Q.93. How does octopus protect itself when in danger ?
 (1) By hiding (2) By camouflage (3) By expelling ink (4) All of these
- Q.94. Recently, in an accident near Karad, which chemical tanker contaminated the water of river Krishna ?
 (1) Potassium chloride (2) Sodium cyanide (3) Potassium bromide (4) Liquid ammonia
- Q.95. World Population Day is observed on ———
 (1) 21st February (2) 11th July (3) 22nd April (4) 5th May
- Q.96. Why did the air transport in Europe got disturbed frequently in April 2010 ?
 (1) Due to pollution in London
 (2) Due to smog in Germany
 (3) Due to fog in Switzerland
 (4) Due to the ashes from the volcanic eruption in Iceland
- Q.97. Name the identity card prepared for Indians on the basis of finger impression.
 (1) Computerised card (2) Biometric Card (3) Barcode card (4) Forensic card
- Q.98. Every year during winter, flamingos migrate to which place of Mumbai ?
 (1) Sanjay Gandhi National Park (2) Juhu (3) Bandra creek (4) Sewri
- Q.99. In May 2010, who created bacteria with artificial DNA molecules ?
 (1) Louis Carole (2) Francis Craig (3) Francis Collins (4) Craig Venter
- Q.100. While probing for life on other planets, which factor is looked for the most ?
 (1) Oxygen (2) Water (3) Carbon dioxide (4) Ozone