

CHINMAYA VIDYALAYA, TARAPUR

P-201, MIDC Indl. Area, Saravali, Boisar

ISO 9001-2008 Certified

SCIENCE TALENT SEARCH EXAMINATION

SAMPLE PAPER



CLASS - VIII

Please fill the following details immediately

Name: _____

Hall Ticket No.: _____

❖ 100 Questions ❖

❖ Time Allowed : 120 Minutes ❖

- ❖ Do not open this question paper until the signal is given.**
- ❖ Please check the CLASS printed on the cover page and the inside is same when you open the booklet.**

General Instructions:

- 1) All questions are compulsory and carry equal marks.
- 2) There is no negative marking.
- 3) There is only one correct answer hence write one choice only.
- 4) Please avoid cutting/overwriting etc.
- 5) Return the answer sheet to the invigilator at the end of the examination.
- 6) The question paper can be retained by the student.

PHYSICS [30]

- 1) A positively charged body _____ charged body.
a) attracts negatively b) attracts positively
c) repels negatively d) repels positively
- 2) Identify the correct relation
a) rolling friction > static friction
b) rolling friction < static friction
c) static friction < sliding friction
d) rolling friction = sliding friction
- 3) Pressure is always equal to
a) force / area b) area/force
c) area x force d) area + force
- 4) Which of the following are good conductors?
a)metals b) liquids c) gases d) none
- 5) Which instrument is used to measure atmospheric pressure?
a) anemometer b) barometer c) beam d]lactometer
- 6) Why do we slip when the floor is wet?
a]water increases friction between the floor and our foot
b]water reduces friction between the floor and our foot
c] floor becomes slippery due to soap solution
d] water increases the slippery
- 7) The sound within the frequency range of 20Hz to 20,000 Hz is called
a] ultra sound b] infra sound
c] audible sound d] inaudible sound
- 8) Sound waves cannot travel through
a] vacuum b] gas c] solid d] liquid
- 9) Which substance is coated on moving parts of machines to reduce friction?
a] Grease b] Oil c] Boric acid d] Kerosene
- 10) Current is the flow of
a] matter b] electrons c] protons d] charge

- 11) If a charged plastic straw is brought near on uncharged one we will observe
a) repulsion b) both attraction and repulsion
c) attraction d) neither attraction nor repulsion
- 12) Unit of pressure has been named after
a) Newton b) Pascal c) Galileo d) James Bond
- 13) _____ is the phenomenon of splitting of white light into its constituent colours.
a) Dispersion b) Reflection c) Refraction d) Mirage
- 14) The planets are visible because they are
a) emitting their own light
b) reflecting the light of the sun
c) away from the earth
d) absorbing the light of the sun.
- 15) Pull of gravity is a measure of _____ of a man.
a) mass b) weight c) height d) colour
- 16) Which of the following are the characteristics of sound?
a) loudness b) pitch c) timber d) all of these
- 17) _____ force is non contact force.
a) Frictional b) Elastic c) Muscular d) Electrostatic
- 18) _____ is a non magnetic object.
a) Copper b) Cobalt c) Nickel d) Iron
- 19) An apple can be cut easily by a sharp knife than a blunt knife because the _____.
a) pressure exerted will be less
b) friction will be more
c) pressure exerted will be more
d) apple is softer than the knife
- 20) Sunlight reaches us in
a) 8 seconds b) 8 minutes
c) 8 hours d) 8 days
- 21) The speed of light is
a) 3×10^{10} cm/s b) 330 m/s
c) 1000 m/s d) 3×10^5 m/s

- 22) The principle of sundial is based on
a] length of day and night
b] rising of the sun.
c] setting of the sun
d] decrease and increase in length of shadow
- 23) _____ show static electricity.
a] Conductor
b] Insulator
c] Metal rods
d] Electrolytes
- 24) Pushing a rock from hill top is an example of
a] magnetic force
b] electrostatic force
c] friction force
d] muscular force
- 25) Noise and music differ in
a] tone b] note c] pitch d] quality
- 26) _____ is used for check up whether a cell is generating current.
a] Photometer
b] Galvanometer
c] Thermo scope
d] Hygrometer
- 27) How many degree Fahrenheit makes 0°C ?
a] 32°F b] 37°F c] 39°F d] 41°F
- 28) Which scientific principle has been used in the brakes of vehicles?
a] velocity b] friction c] frequency d] decibel
- 29) _____ light has the longest wavelength.
a] Red b] Blue c] Yellow d] Green
- 30) A positive charge ion is called.
a] Atom
b] Neutral ion
c] Cat ion
d] Anion

CHEMISTRY [30]

- 31) The study of the constitution of metals is called
a] metallurgy
b] metallography
c] ornithology
d] osteology
- 32) Dry ice is
a] solid CO
b] solid CO_2
c] liquid CO
d] liquid CO_2

- 54) Identify the metal caused for blood pressure.
a] Phosphorus b] Zinc
c] Sodium d] Iron
- 55) The rod in the dry cell, which acts as the positive terminal is made of
a] carbon b] zinc c] copper d] aluminium
- 56) Which among the following does not sublime?
a] Camphor b] Sodium chloride
c] Ammonium chloride d] Naphthalein
- 57) At which temperature does water have the maximum density?
a] 4° C b] 2° C c] 100° C d] 0° C
- 58) A cellulose molecule is made up of
a] fibers b] cells
c] oxygen atoms d] glucose molecules
- 59) The symbol of phosphorus is
a] Ph b] P c] Po d] Pu
- 60) Quartz crystals are chemically
a] silicon dioxide b] sulphur dioxide
c] zinc sulphate d] silicon monoxide

BIOLOGY [30]

- 61) What is the process when a microbe is injected to prevent us from getting a disease?
a] immunization b] disinfectant
c] antiseptic d] antibodies
- 62) _____ is not an artificial silk.
a] Nylon b] Polyester c] Rayon d] Acrylic
- 63) Animal cells do not have
a] mitochondria b] plastids
c] lysosome d] nucleus

- 64) Hydra reproduces by
a] fragmentation b] budding
c] spore formation d] binary fission
- 65) _____ are the chemical secretions from the endocrine glands.
a] Enzymes b] Hormones c] Platelets d] Plasma
- 66) Breeding, development and growth of fish is
a] pisciculture b] captured fisheries
c] cultural fisheries d] pond fisheries
- 67) Insulin is secreted by _____ gland.
a] Adrenal b] Hypothalamus
c] Pancreas d] Thyroid
- 68) The organic manure is considered better than fertilizers because
a] it can be prepared in the fields
b] it is less rich in plant nutrient
c] it improves the texture of the soil
d] it decreases the water holding capacity of the soil
- 69) Litmus is obtained from
a] algae b] fungi c] lichen d] virus
- 70) Which of the following will occur if the fallopian tube is ligated?
a] Ovum will not produced
b] No fertilization will occur
c] Implantation of the zygote cannot occur
d] No sex hormones will be produced
- 71) Which of the following food(s) is /are suitable to be preserved using dehydration?
a] Fish b] Chillies c] Mushrooms d] All of the above
- 72) Virion consists of
a] nucleic acids b] nucleus
c] cell organelles d] cytoplasm
- 73) A non-leguminous nitrogen fixing plant is
a] gram b] alnus c] pea d] bean

- 74) The instrument used to level the field is
a] harrow b] leveler c] seed drill d] plough
- 75) Control room of the cell is _____.
a] nucleus with its chromatin network
b] chromosomes
c] DNA and genes
d] nucleoid
- 76) Ribosome factory is
a] protein b] nueleolus c] ER d] Golgi complex
- 77) Escherichia Coli is found in
a] water b] milk c] soil d] human intestine
- 78) All fungi are
a] parasites b] saprophytes
c] symbionts d] heterotrophs
- 79) Wilt is a crop disease caused by
a] fungi b] bacteria c] aphids d] virus
- 80) Which of the following structure carry out similar functions in both plant and animal cells
a] cell wall b] chloroplast
c] food vacuole d] plasma membrane
- 81) _____ is known as pond silk.
a] Spirogyra b] Volvx c] Chlamydomonas d] Euglena
- 82) The vector of malaria fever is
a] culex b] aedes c] anopheles d] all
- 83) The earth is warm due to the presence of
a] ozone b] oxygen c] air d] carbon dioxide
- 84) What is the movement of ants towards sugar called
a] stimulus b] respiration
c] migration d] response
- 85) _____ is a bacterium used to make curd from milk.
a] Lacto bacillus b] Vibrio coli
c] Salmonella d] Anthrax

- 86) What is transpiration?
a) Opening and closing of stomata
b) Evaporation of water from the leaves
c) Making food for the plant
d) Trapping insects for food
- 87) Which of the following adaptations protect a stick insects from its enemies?
a) Hibernation
b) Having thick fur
c) Camouflage
d) By migrating
- 88) _____ is not a viral disease.
a) Polio b) Measles c) Common Cold d) Typhoid
- 89) The stalk of the flower is known as
a) petiole b) pedicel c) thalamus d) rachis
- 90) Which of the following processes cause juice to ooze out when sugar is sprinkled on strawberries?
a) Diffusion b) Transpiration
c) Osmosis d) Plasmolysis

GENERAL KNOWLEDGE [10]

- 91) "Towards Freedom" is an autobiography of
a) I.K.Gujral b) Jawaharlal Nehru
c) P.V. Narasimha Rao d) Lal Bahadur Shastri
- 92) Vijay Ghat is the rest place of
a) Moraji Desai b) Charan Singh
c) Lal Bahadur Shastri d) Sardar Vallabhai Patel
- 93) Identify the colour of the Olympic ring that represents the continent Australia.
a) Green b) Red c) Black d) Yellow
- 94) What is the capital of Thailand?
a) Bankoka b) Riyad c) Dhaka d) Doha
- 95) The international symbol of the awareness of which disease is the purple ribbon?
a) Swine flu b) Alshimerse
c) Malaria d) Tuberculosis

96) Which country is known as the land of rising sun?

- a] Tokyo
- b] Japan
- c] Srilanka
- d] Malaysia

97) What is the currency of China?

- a] Dinar
- b] Yuwan
- c] Riyal
- d] Dollar

98) Identify the name of the parliament of Nepal.

- a] National Assembly
- b] Shora
- c] Cenet
- d] Diat

99) Who discovered radio?

- a] James watt
- b] Marconi
- c] Alfred Nobel
- d] Edison

100) Identify the instrument used to measure the distance travelled by the vehicle.

- a] Manometer
- b] Speedometer
- c] Odometer
- d] Photometer