

T COMMON ANNUAL EXAMINATION - 2025

Standard - VIII

Time : 2.30 hrs

SCIENCE

Marks: 100

Part - I

I. Answer all the questions:

20×1=20

- 1) Luminous Intensity is the intensity of _____.
a) laser light b) UV light c) Visible light d) IR light
- 2) Which of the following liquid has more viscosity?
a) Grease b) Water c) Coconut oil d) Ghee
- 3) Which of the following has curved reflecting surface?
a) plane mirrors b) spherical mirrors
c) simple mirrors d) None of the above
- 4) Fuse is
a) a switch b) a wire with a low resistance
c) a wire with high resistance
d) a protective device for breaking an electric circuit
- 5) The range of audible frequency for the Human ear is
a) 2 Hz to 2000 Hz b) 20Hz to 2000 Hz
c) 20Hz to 20000Hz d) 200Hz to 20000Hz
- 6) MRI stands for
a) Magnetic Resonance Imaging b) Magnetic Running Image
c) Magnetic Radio Imaging d) Magnetic Radar Imaging
- 7) Who is popularly known as 'Rocket Man' of ISRO?
a) Dr. A.P.J. Abdul Kalam b) Dr. Mayilsamy Annadurai
c) Dr. Kailasavardivan Sivan d) Dr. Palanivel Veeramuthuvel
- 8) The non-metal which conducts electric current is
a) Carbon b) Oxygen c) aluminium d) sulphur
- 9) _____ undergoes rusting
a) Tin b) Sodium c) Copper d) Iron
- 10) In water, hydrogen and oxygen are combined in the ratio of _____ by mass.
a) 1:8 b) 8:1 c) 2:3 d) 1:3
- 11) Permanent hardness of water is due to the presence of _____.
a) sulphates and chlorides b) dust particles
c) Carbonates and bicarbonates d) other soluble particles.
- 12) The chemical formula of Calcium oxide is _____.
a) CaO_2 b) Ca(OH)_2 c) CaCO_3 d) CaO

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- 13) _____ is the coal of superior quality.
 a) Peat b) Lignite c) Bituminous d) Anthracite
- 14) The antibiotic obtained from the fungi *Penicillium chrysogenum* is
 a) Penicillin b) Streptomycin c) Aspirin d) Amoxicillin
- 15) Binomial Nomenclature was first introduced in the year
 a) 1970 b) 1975 c) 1978 d) 1623
- 16) In the absence of oxygen, glucose is broken down into _____
 a) lactic Acid b) Citric Acid c) Acetic acid d) Nitric acid
- 17) Cockroach moves with the help of its
 a) leg b) bone c) muscularfoot d) whole body
- 18) Adam's apple is the growth of the _____
 a) Pharynx b) thyroid c) larynx d) parathyroid
- 19) Insitu conservation is _____
 a) Offsite conservation b) Onsite conservation
 c) Both a and b d) None of these
- 20) _____ function is used to calculate the total of a given set of values
 a) Average b) Sum c) Min d) Max

Part - II

II. Answer any 12 of the following questions.

Question No. 35 compulsory.

12×2=24

- 21) Complete the analogy:
 a) Knot in a thread : _____ friction ::
 Ball bearing : _____ friction
 b) Downward force : Weight ::
 Upward force offered by liquid : _____
- 22) State the laws of reflection.
- 23) State true or false. If false, correct the statement
 a) Electroscope is a device used to charge a body by induction.
 b) Water can conduct electricity.
- 24) Name the Indians worked at NASA.
- 25) Mention the various conditions required for a chemical reaction to occur.
- 26) Match the following:-
- | | | |
|---------------|---|-------------------------------|
| Nitrogen | - | Respiration in living animals |
| Oxygen | - | Fertilizer |
| Carbondioxide | - | Refrigerator |
| Dry ice | - | Fire extinguisher |

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- 27) Fill in the blanks
 a) _____ is the smallest particle of an element.
 b) An atom is made up of _____, _____ and _____
- 28) Define Potable water.
- 29) Identify the gas known as Syn gas. Why is it called so?
- 30) Write any two characters of dicotyledom.
- 31) Define - Prokaryotic cell.
- 32) Adolescence is the energistic stage. What health and good habits you want to develop?
- 33) Name the methods of sowing.
- 34) What is the purpose of charts?
- 35) A sound has frequency of 50Hz and a wavelength of 10m. What is the speed of the sound.

Part - III

III. Answer any 7 questions. Question No.46 is compulsory. $7 \times 4 = 28$

- 36) State Pascal's law and Mention its applications?
- 37) a) Name the three types of Heat transfer.
 b) Define specific heat capacity.
- 38) a) What is electroplating?
 b) Give some uses of electroplating.
- 39) a) Give two differences between music and noise.
 b) Consider the statement given below and choose the correct option
 Assertion: Two persons on the surface of moon cannot talk to each other
 Reason: There is no atmosphere on moon.
 A) Both Assertion and Reason are true and reason is the correct explanation of assertion.
 B) Both Assertion and Reason are true but reason is not the correct explanation of assertion.
 C) Assertion is true but reason is false.
 D) Both Assertion and Reason are false.
- 40) What are the achievements of Chandrayan - I?
- 41) a) What is tarnishing? Give an example.
 b) On heating Calcium Carbonate gives Calcium Oxide and Oxygen.
 Is it an exothermic reaction (or) an endothermic reaction?
- 42) Distinguish between Octane number and Cetane number.
- 43) Draw the structure of Human Eye and label its parts.
- 44) What are the functions of skeleton in Human Body?

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45) a) Match the following:-

Gir National Park	-	Madhya Pradesh
Sundarabans National Park	-	Uttara Khand
Indira Gandhi National Park	-	West Bengal
Corbett National Park	-	Gujarat
Kanha National Park	-	TamilNadu

b) What is IUCN?

46) a) Give the reasons for the following.

- Water is a universal solvent.
- Sea water is unfit for drinking.

b) Write the chemical formula for the following compounds.

- Silver Nitrate
- Barium Chloride

Part - IV

4×7=28

IV. Answer all the questions:-

47) a) i) What are the differences between plane angle and solid angle? (3)
ii) List out the base quantities with their unit. (4) [or]

b) Explain the working of a Periscope. (7)

48) a) i) Define magnetic field. (2)

- List out the uses of magnets. (5)

[or]

b) i) Tabulate the differences between metals and non-metals. (4)

- Define Alchemy. (2)

- The symbol of Tungsten is _____ (1)

49) a) i) What is dry ice? What are its uses? (4)

- Write the properties of anode rays. (3)

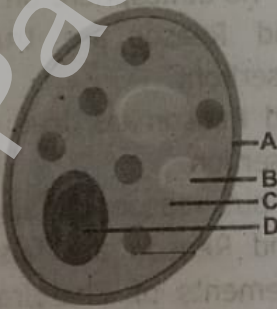
[or]

b) i) Define - Acid (2)

- What are the uses of acids? (4)

- Acid mixed with base forms _____ (1)

50) a) i) Redraw the diagram and label the parts. (2)



ii) Draw the outline of Bentham and Hooker's System of Classification. (5) [or]

b) i) What are the physical changes that occur in boys and girls during adolescence? (5)

- What is foliar spray? (2)
