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COMMON HALF YEARLY EXAMINATION - 2025 Std - VIII

Tim	e :2.30 Hrs	Science		Marks: 100		
		part - I		N.		
١.	Answer the following	:		$20 \times 1 = 20$		
1.	Closeness of two or mo	ore measured values is	called as			
70.552	a) accuracy	b) precision	c) error	d) approximation		
2.	Which of the following I	iquids has more viscos	ity?			
	a) Grease	b) water	c) coconut oil			
	Water strider insect slic	les on the water surfac	e easily due to	of water.		
	a) density	b) surface tension	c) viscosity	d) friction		
4.	The spherical mirror us	ed as a rear view mirro	or in the vehicle	is .		
	a) concave mirror	b) convex mirror	c) plane mirro	rd) none of the above		
5.	Conduction is the way	of heat transfer which t	akes places in	a		
	a) solid	b) liquid	c) gas	d) all of them		
6.	The Gold-leaf electrose	cope was developed by				
	a) William Gilbert	b) Abraham Bennet	c) Benjamin F	ranklin		
	d) James Prescott Joul					
7.	The range of audible for	requency for the humar	n ear is			
	a) 2Hz to 2000 Hz	b) 20 Hz to 2000 Hz	c) 20 Hz to 20	000 Hz		
	d) 200 Hz to 20000 Hz					
8.	Symbol of mercury is					
22	a) Ag	b) Hg	c) Au	d) Pb		
9.	In Haber's process of producing ammonia is used as catalyst.					
	a) nitrogen	b) hydrogen	c) iron	d) nickel		
10.	Photo synthesis is a cl	nemical reaction that ta	kes place in the	e presence of		
	a) heat	b) light	c) electricity	d) catalyst		
11.	Which of the following	is known as azote?	A 10			
	a) Oxygen	b) Nitrogen	c) Sulphur	d) Carbon-dioxide		
12.	Cathode rays are mad	e up of	50 av 71			
	a) neutral particles b) positively charged particles					
	c) negatively charged	particles	d) none of the			
13.	Which among the follo	wing is the characterisa	ation of potable	water?		
	a) colourless	b) transparent	c) free from ir	npurities d) all the above		
14.	The aqueous solutions	of conduct ele	ctricity.	COLUMN DATE OF THE PROPERTY OF		
	a) acid	b) base	c) salt	d) all of these		
15.	is a prokaryotic	microorganisms.		an and an analysis		
	a) Virus	b) Algae	c) Fungi	d) Bacteria		
16.	Plants that prevent so	l erosion are				
	a) algae	b) fungi	c) bryophyte	s d) pteridophytes		
17.	cells are specia	lised cells that can be	transformed in	to any kind of cells.		
ne dos	a) Nerve	b) Stem	c) Heart	d) Bone		
18.	The coloured portion of		AIL			
	a) Sclera		c) Iris	d) Pupil		

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VIII-SC

- 19. joints are immovable?
 - a) Shoulder and arm b) Knee and joint
- c) Upper jaw and skull

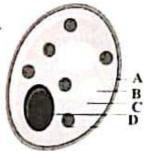
- d) Lower jaw and upper jaw
- 20. Adolescence is the period of life between years of age.
 - a) 10 to 16
- b) 11 to 17
- c) 13 to 19

d) 11 to 20

II. Answer any 12 questions. Q.No. 35 is compulsory.

12 x 2 = 24

- 21. What is measurement?
- 22. Why are heavy bags provided with broad straps?
- Define specific heat capacity.
- 24. How charges are produced by friction?
- 25. Fill in the blanks:
 - a) Pitch of a sound depends on the vibration.
 - b) Sound travels in the form of
- 26. Why are bells made of metals?
- 27. What happens when an iron nail is placed in copper sulphate solution?
- State the law of constant proportion.
- 29. State true or false. If false, correct the statement,
 - a) Soap lathers well in hard water.
 - b) Sea water is suitable for irrigation as it contains dissolved salts.
- 30. What is a neutralization reaction?
- Redraw the given diagram and label the parts.



Match the following:

Cyanophyceae

Green algae

Chlorophyceae

Blue green algae

Phaeophyceae

- Red algae

Rhodophyceae

- Brown algae

- 33. Differentiate: Movement and Locomation.
- 34. What do you mean by secondary sex characteristics?
- 35. If two plane mirrors are inclined to each other at an angle of 45°, find the number c images formed.

Part - III

III. Answer any 7 questions. Question no. 45 is compulsory.

 $7 \times 4 = 28$

- 36. List out the base quantities with their units.
- 37. a) State the laws of reflection.
 - b) State Snell's law of refraction.
- 38. a) Consider the statement given below and choose the correct option.

Assertion: Radiation is a form of heat transfer which takes place only in vacuum.

Reason: The thermal energy is transferred from one part of a subtance to anothe part without the actual movement of the atoms or molecules.

- i) Both assertion and reason are true and reason is the correct explanation of assertion
- ii) Both assertion and reason are true, but reason is not the correct explanation o iii) Assertion is true, but the reason is false. assertion.
- iv) Assertion is false, but the reason is true.
- b) Name three types of heat transfer,

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39. Tabulate the differences between metals and non-metals. 40. a) What is dry ice?

b) What are its uses?

41. Give reasons for the following.

a) Water is a universal solvent

b) Aquatic animals can breathe in water.

42. How microorganisms are useful in the field of medicine?

43. Differentiate between inhalation and exhalation.

44. What are the functions of skeleton in human body?

45. a) A stone weighs 500N. Calculate the pressure exerted by it, if it makes contact with a surface of area 25cm² (2)

b) A wave with a frequency of 500Hz is travelling at a speed of 200ms⁻¹, what is the wavelength? (2)

Part - IV

IV. Answer all the questions:

4 x 7 = 28

VIII-SC!

46. a) i) What are the differences between plane angle and solid angle? (3)

ii) State Pascal's law and mention its application. (4)

(OR)

b) Explain the working of thermos flask. (7)

47. a) i) What is electroplating? (2)

ii) Give some uses of electroplating? (2)

iii) What are the properties of sound? (3)

(OR)

b) i) Mention any four compounds and their uses. (4)

ii) Mention the various conditions required for a chemical reaction to occur. (2)

iii) On heating, calcium carbonate gives calcium oxide and carbondioxide. Is it an exothermic reaction or an endothermic reaction? (1)

48. a) i) Balance the following chemical equation. (4)

a) Na + O₂ → Na₂O

b) $N_2 + H_2 \rightarrow NH_3$

c) CaCO₃ + HCI → CaCl₂+CO₂ + H₂O

d) $C + O_1 \rightarrow CO_2$

ii) Write the names of the following compounds (3)

a) CO b) PCI, c) H₂O

(OR)

b) i) Define - Acid (2)

ii) What are the uses of acid? (4)

iii) Acid is derived from the Latin word. (1)

49. a) Draw the outline of Bentham and Hooker's system of classification. (7) (OP)

b) i) Match the following (2)

Puberty

- Testosterone

Adam's Apple

- Muscle development

Androgen

- at 45 to 50 years of age

ICSH

- Sexual maturity

Menopause

- Change in voice

ii) What are the physical change that occur in boys and girls during adolescence? ([:)