

## SHRI KRISHNA ACADEMY

### **NEET, JEE AND BOARD EXAM COACHING CENTRE** SBM SCHOOL CAMPUS, TRICHY MAIN ROAD, NAMAKKAL

Std : X		CIENCE	3231/2/	Time : 2.30 Hrs
Sub: Science	F	FULL TEST-1		Marks : <b>7</b> 5
I. Choose the co	rrect answer :		\	12X1-12
1 Newton's	III law is applicable			
a) for a bo	ody is at rest	b) for a body	in motion	
c) both a	& b	d) only for bo	dies with equal m	isses
2. Then SI	unit of power is			<b>X Y</b>
a) joule	b) ampere	c) watt	d) ohm	
<ol><li>Henry Be</li></ol>	ecquerel discovered in	1896.		) '
a) nucleus	s b) atom	c) isotopes	d) radioact	ivity
4. Which of	the following is a triatomic	molecule?		
a. Glucos	e b.Helium	c. Carbon dio	xide d.Hydroge	en
5. The numb	per of periods and groups in	the periodic table	are	
a) 6,16	b) 7,17	c) 8,18	d) 7,18	
6. Solution	which are made of one so	olute and solvent	are called	
(a)soluti	on (b)binary solu	tion (c)ternar	y solution (d)teti	ranary solutions
7. The wall o	of human heart is made of	1 K A		-
a) Endoca	ardium b) Epicardium	c) Myocardiu	m d) All of the	e above
8 Which tyr	pe of cancer affects lymph p	ales and spleen?		
a) Carcino		c) Leukemia	d) Lympho	nma
,	formed during anaerobic re		a) Lympno	
a)Carbohy			d) Pyruvat	ρ
	n strips are present in the _		, ,	
a)cortex	b) hith c)pericy		lodermis	
,	inely stratified sedimentary			
a)Shale		c) Methane	d) Coal	
	re stored in the	0) 110 1111110	ay doar	
a)Folder	b)box	c)Pai	d)scanner	
		-,	,	
	,	PART-II		
II. Answer any	seven question(Q.NO.22	2 is compulsory)		7X2=14
	iate mass and weight.			
	efractive index?			
	he minimum distance need			
16. Define co	mbination reaction. Give on	ie example for an ex	xothermic combina	ition reaction.

17. Name the simplest ketone and give its structural formula.

18. How does leech suck blood from the host?

- 19. What are synthetic auxins? Give examples.
- 20. Identify the parts A, B, C and D



- 21. The degenerated wing of a kiwi is an acquired character. Why is it an acquired character?
- 22. Calculate the resistance of a conductor through which a current of 2 A passes, when the potential difference between its ends is 30 V

#### PART-III

#### III. Answer any seven question.(Q.NO.32 is compulsory)

- 23. Deduce the equation of a force using Newton's second law of motion
- 24. a) State the law of volume
  - b) What is the role of the earth wire in domestic circuits
- 25. a) An electric heater of resistance 5  $\Omega$  is connected to an electric source. If a current of 6 A flows through the heater, then find the amount of heat produced in 5 minutes.
  - b) What is a longitudinal wave?
- 26. Calculate the number of water molecule present in one drop of water which weighs 0.18 g.
- 27. Metal A belongs to period 3 and group 13. A in red hot condition reacts with steam to form B. A with strong alkali forms C. Find A.B. and C with reactions
- 28. How nerve impulses are transferred from one neuron to next neuron?
- 29. a)Pure-bred tall pea plants are first crossed with pure-bred dwarf pea plants. The pea plants obtained in F<sub>1</sub> generation are then cross-bred to produce F<sub>2</sub> generation of pea plants.
  - a. What do the plants of F1 generation look like?
  - b What is the atio of tall plants to dwarf plants in F2 generation?
  - Which type of plants were missing in F1 generation but reappeared in F2 generation?
  - b) Who liscovered Rh factor? Why was it named so?
- ferentiate the following
  - Monocot root and Dicot root
  - (A) Aerobic and Anaerobic respiration
- 31. i) How is a cancer cell different from a normal cell?
  - ii) Name two maize hybrids rich in amino acid lysine
- 32. The hydroxide ion concentration of a solution is  $1 \times 10^{-11}$  M. What is the pH of the solution?

7X4=28

#### IV. ANSWER ALL QUESTION

3X7=21

- 33. i) What is co-efficient of real expansion?
  - ii) If you keep ice at 0° C and water at 0°C in either of your hands, in which hand you will feel more chillness? Why

(OR)

- a) A sound wave has a frequency of 200 Hz and a speed of 400ms<sup>-1</sup> in a medium. Find the wavelength of the sound wave.
- **b)** A ball of mass 1kg moving with a speed of 10ms<sup>-1</sup> rebounds after a perfect elastic collision with the floor. Calculate the change in linear momentum of the ball.
- 34. a) Give the salient features of "Modern atomic theory".

(OR)

- b) Write notes on i) saturated solution ii) unsaturated solution
- 35. a) i)Write the differences between endocrine and exocrine gland.
  - ii)Define triple fusion
  - iii) Enumerate the importance of forest
  - b)i) List out the parasitic adaptations in leech.
    - ii)Natural selection is a driving force for evolution. New?

# <u>SHRI KRISHNA ACADEMY</u>

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