Department of School Education - Dharmapuri District

Tamilnadu Chief Minister Talent Search Exam (TN_CM_TSE)

Unit Test - 2 (09.08.2023)

Class: 11 Subject: Maths In many forms can rational numbers be represented 1. 1) One 2) Two 3) Three 4) Many The rational number in between $\frac{4}{5}$ and $\frac{7}{8}$ 2. 1) $\frac{11}{13}$ 4) $\frac{77}{40}$ $(2)^{\frac{9}{10}}$ $(3)^{\frac{2}{3}}$ The period of the decimal number 0.45555 is 3. 1) 2 2)1 3)5 4)4 The rational number $-\frac{71}{125}$ has _____ expression *4*. 1) Non – Terminating Decimal 2) Terminating Decimal 4) Terminating and Recurring Decimal 3) Non – Terminating Recurring Decimal $\sqrt{10} =$ _____ 3) $2\sqrt{5}$ 4) $\sqrt{5}\sqrt{2}$ 2)10 **5**. An irrational number between 2 and 2.5 is 6. 2) $\sqrt{5}$ $3)\sqrt{2.5}$ 1) $\sqrt{11}$ 3) $(x^n)^m$ 4) $\left(\frac{1}{x^n}\right)^m$ $\chi^{\frac{m}{n}} =$ 1) $\sqrt[m]{x^n}$ 2) $\sqrt[n]{x^m}$ $\sqrt{63} - \sqrt{175} + \sqrt{28} =$ 1) $\sqrt{-82}$ 3) $\sqrt{82}$ 4) $5\sqrt{7}$ 2)0 $\sqrt[9]{8} - \sqrt[6]{6} =$ 1) $\sqrt{\frac{8}{6}}$ 4) $\sqrt{\frac{6}{8}}$ $\frac{2}{3}$ $3) \sqrt[6]{\frac{2}{3}}$ If $\sqrt{180} = k\sqrt{5}$ then k =10. 1) 2 2)8 3)6 4)16 *11.* Find the odd one out of the following 2) $\frac{\sqrt{27}}{\sqrt{3}}$ 1) $\sqrt{125} \sqrt{5}$ 3) $\sqrt{72} \sqrt{8}$ 4) $\sqrt{3}$ $0.\overline{43} + 0.4\overline{3} =$ *12*. 1) 0.87 3) $0.\overline{86}$ 2) 0.867 4) 0.876 The scientific notation of 0.00090002 is *13*. 3) 9.002×10^{-4} 4) 9.0002×10^{-8} 1) 9×10^{-2} $2)9.0002 \times 10^{-4}$ The simplest form of $(2\sqrt{5} - \sqrt{2})^2$ is 1) $4\sqrt{5} + 2\sqrt{5}$ 2) $22 - 4\sqrt{10}$ 4) $2\sqrt{10} - 2$ 3) $8 - 4\sqrt{10}$ The area of the rectangle with dimensions 5 \times 10 5 and 3 \times 10 3 is *15*.

3) 3.5 \times 10 ⁵

4) 15 \times 10⁸

2) 8 × 10 5

1) 15×10^{15}

PAPER – II SCIENCE Unit Test -2

16. When the ice melts completely the level of water	er in a Tumbler				
1) will increase	2) will decrease				
3) remains the same	4) depends on ice				
17. 1 kilogram is equal to					
1) 9.8 N	2) 980 N				
3) 1000× 9.8 N	4) 1000× 9.8 N				
18. When your body is weighted in a liquid, the los	s in its weight depends upon				
1) volume of the body	2) mass of the body				
3) weight of the body	4) centre of gravity of the body				
19. The electrostatic force between two-point charg	ges operates on the basis of the law.				
1) Coulomb's law	2) Newton's second law				
3) Newton's third law	4) 1 and 3				
20. If a 20 C charge passes through a cross-section current will be	al area of a conductor in one minute, its				
1) 0.5 A	2) 0.33 A				
3) 0.35 A	4) 0.25 A				
21. As the temperature increases in a semiconductor conductivity is	or, its resistance and electrical				
1) decreases and increases	2) increases and decreases				
3) decreases and decreases	4) increases and increases				
22. Choose the group which contains only matters					
1) soil, stone, energy, sunlight, air	2) sand, water, air, force, tree				
3) sunlight, force, energy, sound	4) soil, sand, stone, water, air, tree				
23. Correct examples for matter are, A. Copper, Oxygen, Hydrogen B. water, sugar, salt C. water-alcohol mixture, water- sugar mixture D. water- oil mixture, sand- sugar mixture					
1) A, B & C only	2) All are correct				
3) B, C & D only	4) A, C & D only				

24. Radha was gifted with a brass lamp as memorandum, Brass is a							
1) Compound		2) Mixture					
3) Pure material	4) Metal						
i.Copper, Oxygen, Hydrogen ii.water, sugar, salt iii.water-alcohol mixture, water iv.water- oil mixture, sand- sug	a. homogeneousb. heterogeneousc. compoundsd. elements						
1) i-d, ii-c, iii-a, iv-b	1) i-d, ii-c, iii-a, iv-b						
3) i-d, ii-c, iii-b, iv-a	4) i-d, ii-c, iii-a, iv-b						
26. Human tongue is made up of tissue							
1) ciliated epithelium	2) cuboidal epithelium						
3) columnar epithelium	4) squamous epithelium						
27. Canaliculi is present in the which is helpful for connecting network of body.							
1) ligaments		2) blood					
3) bone	4) muscles						
28. Which one of the following is correct example for granulocytes?							
1) Lymphocyte		2) Neutrophils					
3) Basophiles		4) Eosinophils					
i) sclereids - ii) chloroplast - iii) simple tissue - iv) companion cell -	a) chollenchymab) phloemc) sclerenchymad) chlorenchyma						
1) i-a, ii-b, iii-c, iv-d		2) i-d, ii-c, iii-b, iv-a					
3) i-c, ii-d, iii-a, iv-b		4) i-c, ii-d, iii-b, iv-a					
30. Nerve cells do not undergo the cell division due to the absence of							
1) nucleus		2) vacuels					
3) centrioles		4) chromosomes					

Chief Minister's Talent Search Model Examination (2023-24) - Social Science

Examination - 2

31. Who referred to Egypt as the "gift of the Nile"?
1. Confucius 2. Zoroaster 3. Herodotus 4. Hamurabi
32. Who wrote the book "Art of War"?
1. Lao Tzu 2. Sun Tzu 3. Confucius 4. Shi Heiwangdi
33. Which of the following was not invented by the Egyptians?
1. Sundial 2. Water clock 3. Glass 4. Invention of the wheel
34. What is correct about the contribution of Mesopotamian civilization?
1. They developed the calendar system of 360 days
2. Divide a circle into 360 units
3. The Cuneiform system of writing was their contribution
4. The Hammurabi's law code is another legacy of the Mesopotamians
35. Match the followings
a) The sorrow of China - 1. Shi Hwangdi
b) Chin Dynasty - 2. Zabu
c) Silk Road - 3. Yellow River
d) Large breed - 4. The Han Empire
1) 2, 1, 3, 4 2) 3, 1, 2, 4 3) 3, 1, 4, 2 4) 1, 2, 3, 4
36. Process of dissolution of rock substances in water is
1. Oxidation 2. Solution 3. Gradation 4. Hydration
37. This generally originates from mountains.
1. Lake 2. Sea 3. River 4. Ocean
38. The Cylindrical holes drilled vertically in the river bed are
1. Potholes 2. Valleys 3. Jumps 4. Path between hills
39. The Largest Delta in the world is
The Nile River Delta The Ganges - Brahmaputra Delta
3. The Yellow River Delta 3. The Indus Delta
40. The redness of the red clay soil is due to precence of
1. Iron oxide 2. Carbon 3. Copper 4. Magnesium
41. Which part of the Constitution of India says about the Election Commission?
1. Part - III 2. Part - XV 3. Part - XX 4. Part - XXII
42. Assertion (A): Indian Constitution provides for an independent Election Commission.
Reason (R): It ensures free and fair elections in the country.

3	Δisc	correct and	IR is in	correct								
4.	A is to	alse and	R is corr	ect								
43. Ir	ndia ha	s adopted	the elec	toral sy	/stem f	ollowing	in the					
1.	USA	2.	United K	ingdom	3	3. Canada	а	4.	Russia			
44. V	Vhich o	ne of the	following	is not	in prii	mary sec	tor?					
1.	Agricul	ture	2. Manuf	acturing)	3. Mining	ĺ	4.	Fishing			
45. N	latch L	ist I and	with List	II using	g the c	ode give	n belov	٧.				
			Lis	t I							Lis	st II
A.	Agricult	ture Fores	try Fishin	g and	Mining		-	1.	Unorgan	ized	Secto	r
В.	Genera	ntion Powe	r Genera	tion Ga	as and	Drinking	-	2.	Depende	ent S	ector	
	Water	Distribution	า									
C.	Comme	erce, Trans	sport and	Teleco	ommuni	cations	-	3.	Second	Sect	or	
D.	Group	uploading	companie	es and	home	industries	; -	4.	Primary	sect	or	
	Α	В	С	D								
1)	1	2	3	4								
2)	4	3	2	1								
3)	2	3	1	4								
4)	3	2	4	1								

1. Both A and R are correct, and R explains A

2. Both A and R are correct, R does not explain A