Learning Leads To Ruling

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Tnpsc Science Questions 2021 Part 1 in English

More Questions: https://wp.me/p7JanY-6T4

1. The wettability of a surface by a liquid depends primarily on

(d) SA node-AV	node-bundle of hi	s-Purkinje fil	ores			
(e) Answer not kn	nown					
7. Select the disea	ase for which the fi	rst synthetic va	accine was produced	l for the first time in the world		
(a) Polio (b)	Hepatitis B	(c) Rabies (d) Chickenpox (e) Answer not kr		(e) Answer not known		
8. Which bacteriu	ım synthesize biode	egradable plas	tic?			
(a) Thermoplasma (b) Methanobacterium			(c) Halobacterium	n (d) Ralstonia		
(e) Answer not kn	nown					
	f tender leaves of p		oal drink nilavembu	kudineer is given to dengue patients,		
(a) RBC	(b) WBC (c) Blood Platelet Count (d) Both a and b		(d) Both a and b			
(e) Answer not kn	nown					
10. Which of the	following is incorre	ectly paired?				
(a) 1 astronomica	l unit – 1.49 x 10 ¹¹	m (b) 1	light year – 9.46 x 1	$0^{15} \mathrm{m}$		
(c) 1 fermi – 10 ⁻¹⁵	5 m (d) 1 A	Atomic mass u	ınit – 6.17 x 10 ⁻²⁷ m	(e) Answer not known		
11. Which pair of		, , ,	1 (0.77			
-	elements has the s	imilar chemica	al properties? (Z me	ans atomic number)		
_			an properties? (Z me $= 4; Z = 21$ (d)			
_	2 (b) $Z = 11; Z$					
(a) Z = 14; Z = 22 (e) Answer not kn	2 (b) $Z = 11; Z$	= 19 (c) Z	=4; Z=21 (d)			
(a) Z = 14; Z = 22 (e) Answer not kn	2 (b) Z = 11; Z nown	= 19 (c) Z ces Tollen's re	=4; Z=21 (d)			
 (a) Z = 14; Z = 22 (e) Answer not kn 12. Which one of 	(b) $Z = 11$; Z nown (the following reduction (b) Acetic Acetic	= 19 (c) Z ces Tollen's re	=4; Z=21 (d) eagent?	Z = 2; Z = 4		
 (a) Z = 14; Z = 22 (e) Answer not kn 12. Which one of (a) Formic acid (e) Answer not kn 	(b) $Z = 11$; Z nown (the following reduction (b) Acetic Acet	= 19 (c) Z ces Tollen's re id (c) Be	= 4; Z = 21 (d) eagent? enzo Phenone	Z = 2; Z = 4		
 (a) Z = 14; Z = 22 (e) Answer not kn 12. Which one of (a) Formic acid (e) Answer not kn 13. The taxonomy 	(b) Z = 11; Z nown (the following redu (b) Acetic Acetor nown which involves the	= 19 (c) Z ces Tollen's re id (c) Be	= 4; Z = 21 (d) eagent? enzo Phenone	Z = 2; Z = 4 (d) Benzene		
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(a) Z = 14; Z = 22 (e) Answer not know that 12. Which one of the control of the	(b) Z = 11; Z nown (the following redu (b) Acetic Aci nown which involves the	ces Tollen's red (c) Be esimilarities a (b) Molecula (e) Answer n	= 4; Z = 21 (d) eagent? enzo Phenone Ind dissimilarities and control of the cont	Z = 2; Z = 4 (d) Benzene nong the immune system of different		

2. Copper

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(b) Hooked leaf tip

(c) Red

(d) Green

(b) Blue

(a) Violet

(e) Answer not known

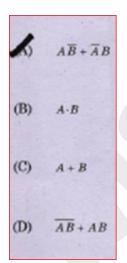
22. Assertion: The hard boiled egg and raw egg can be distinguished on the basis of spinning of both.

Reason: The moment of inertia of hardboiled egg is more as compared to raw egg.

- (a) Both Assertion and Reason are true and Reason is the correct explanation of the Assertion
- (b) Both Assertion and Reason are true but the Reason is not correct explanation of the Assertion
- (c) Assertion is true but the reason is false
- (d) Assertion is false but the reason is true
- (e) Answer not known
- 23. What is rancidity?
- (a) Decaying of carbohydrate
- (b) Decaying of protein
- (c) Decaying of fruits

- (d) Decaying of lipids
- (e) Answer not known
- 24. Accuracy of scientific knowledge is enhanced through
- (a) Direct observation
- (b) Experimental observation
- (c) Indirect observation

- (d) Inferential observation
- (e) Answer not known
- 25. The Boolean expression for XOR gate is



- (e) Answer not known
- 26. If a simple pendulum with the mass of the bob as 'M' has a time period 'T', then if in the same pendulum another bob with mass 2 M replaces the original bob. Now the time period is (It may be assumed that the string attached to the bob has no mass)
- (a) 2T
- (b) T/2
- (c) T
- (d) 3T/2
- (e) Answer not known

27. The source of dendrothermal energy is						
(a) Biomass	(b) Cool	(c) Pyrolysis	(d) Natural	gas	(e) Answer not known	
28. Which of t	he following is the con	nsequence of cla	imate change related	warming	g of rivers?	
(a) Changes in water salinity (b) Changes		(b) Changes in	in fish migration patterns			
(c) Changes in	pathogen load	(d) Changes in	contaminant levels	(e) Ar	nswer not known	
29. The major	cause for the depletion	n of Ozone is				
(a) Aerosol	(b) Hydrogen Sulphic	le (c) Hyo	lrogen Sulphate	(d) Ca	arbon di oxide	
(e) Answer no	t known					
30. The pollut	ant which cause impai	rment in plant n	netabolism is			
(a) Nitrous oxi	ide (b) Carbon di	oxide	(c) Sulphur di oxid	le	(d) Carbon mono oxide	
(e) Answer no	t known					
31. The term b	oiodiversity indicates					
(a) Species richness and genetic variation (b) Species richness and habitat diversity						
(c) Genetic va	riation and diverse eco	osystem	(d) Species richness	salone	(e) Answer not known	
32. Kidney sto	ones are formed by the	Precipitation of	f the following chem	nicals		
I. Cystine	II. Oxalate	II. Oxalate III. Uric acid IV. Sodium				
(a) I and II	(b) I, II and I	II	(c) III and IV	(d) I, I	II, III and IV	
(e) Answer no	t known					
33. The colour	of the skin in ripened	apple, tomato a	and grape fruits is du	ie to accu	mulation of	
(a) Carotenoid	(b) Lycopene	(c) Ant	thocyanin	(d) Et	hylene	
(e) Answer no	t known					
34. Single cell	Eukaryotes are include	ed in				
(a) Fungi	(b) Monera	(c) Pro	tista (d) A	Archea	(e) Answer not known	
35. In the Hab	er's process for the ma	nufacture of an	nmonia			
(a) Finely div	ided iron is used as a	catalyst	(b) Finely divided molybdenum is used as a catalyst			
(c) Finely divided nickel is used as a catalyst (d) No catalyst is required						
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(e) Answer not known
36. What are isotones?
(a) Atoms have same number of protons but different number of neutrons
(b) Atoms have same number of neutrons but different number of protons
(c) Atoms have same number of protons and neutrons
(d) Atoms of the same element with different masses
(e) Answer not known
37. Silicon is one of the best known semi conducting material. As its temperature rises more, it becomes a better conductor. But the temperature at which the silicon gets permanently damaged is
(a) 100°C (b) 150°C (c) 200°C (d) 250°C (e) Answer not known
38. A rock containing the fluorescing calcite is illuminated by ultraviolet light. Then, the colour of the rock seems to be
(a) Violet (b) Blue (c) Green (d) Red (e) Answer not known
39. Raman Effect is scattering by
(a) Pure Solids (b) Pure Liquids (c) Pure Gases (d) Impure Gases
(e) Answer not known
40. The common table salt is
(a) Compound (b) Element (c) Mixture (d) Alloy (e) Answer not known
41. On rear wheel drive cars, with the engine in front it is a common practice to weigh down the trunk in order to increase safety, when driving on –
(a) Icy roads (b) Muddy roads (c) Hill roads (d) Plane roads
(e) Answer not known
42. Specific Experiments:
1. Blue Litmus paper is dipped into hydrochloric acid and it is changed into Red Colour.
2. Blue Litmus paper is dipped into oxalic acid and it is changed into Red colour.
3. Blue Litmus paper is dipped intro sulphuric acid and it is changed into Red colour.
General Law: Acid is turned into blue litmus red. It is called Reasoning.

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(a) Deductive (b) Critical (c) Everyday (d) Inductive (e) Answer not known
43. According to Darwin, speciation is effected by
(a) Small continuous heritable variation (b) Small continuous non heritable variation
(c) Sudden heritable variation (d) Sudden discontinuous variation (e) Answer not known
44. Agriculture Information Service Network (AGRISNET) was launched for providing following information viz.,
I. Rainfall II. Fertilizers position
III. Minimum support price IV. Sister departments of farm community
Select the appropriate combination
(a) I, II and III (b) I, II and IV (c) I, III and IV (d) II, III and IV
(e) Answer not known
45. Water drop in space is spherical because in the absence/reduced effects of gravity, the forces governing the objects are all the same and therefore the drop
(a) Attains a shape having the least amount of surface area
(b) Attains a shape having the maximum amount of surface area
(c) Attains a shape having the least volume
(d) Attains a shape having the maximum volume
(e) Answer not known
46is a desiccant herbicides.
(a) Arsenic acid (b) Acetic acid (c) 2, 41 5 – T (d) Ammonium Sulphamate
(e) Answer not known
47. The system of animal classification used nowadays is
(a) Artificial classification (b) Practical classification (c) Natural classification
(d) Horizontal classification (e) Answer not known
48. The HIV-I (virus) contains two identical molecules of positive sense is
(a) mRNa (b) rRNa (c) ssRNa (d) b and c (e) Answer not known
49. The stored form of Iron content in human body is

Previous Questions

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(a) Haemoglobin (b) Haemoiron (c) Haemosiderin (d) a and b (e) Answer not known 50. In the nuclear reaction $_{92}U^{238} \rightarrow {}_{2}Th^{A} + {}_{2}He^{4}$, the value of A and Z are (a) A = 234, Z = 94(b) A = 234, Z = 90(c) A = 238, Z = 94(d) A = 238, Z = 90(e) Answer not known 51. An AND gate can be obtained by repetitive use of (a) NOT gate (b) NOR gate (c) NAND gate (d) Both b and c (e) Answer not known 52. The velocity of sound in air at 30°C is 350 m/s. Keeping the temperature constant, the pressure of air is doubled. The velocity of sound in air now will be (a) 700 m/s(b) 175 m/s(c) 350 m/s (d) 800 m/s (e) Answer not known 53. Match the following: 1. Salmonella typhii (a) Bacillary dysentery (b) Enteric fever 2. Streptococcus pyogenes (c) Wooping Cough 3. Bordetella pertusis (d) Pharyngitis 4. Shigella species (b) (a) (c) (d) 1 3 2 4 (a) 1 (b) 4 1 3 2 (c) 2 (d) 3 (e) Answer not known 54. A book three body problem written by (b) N.K. Jemisin (c) Liu Cixin (d) Cadwell Turnbull (a) S.T. John Mendal (e) Answer not known