NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	With increasing principle quantum number the energy difference between adjacent energy levels in H atom	A. Decreases B. Increases C. Remains constant D. Decreases for low value of Z and increases for higher value of Z.
2	Phosphide ion has the electronic structure similar to that of	A. Nitride ion B. Fluoride ion C. Sodium ion D. Chloride ion
3	Which is the most amphoteric?	A. Na₂O B. MgO C. Al₂O₃ D. CaO
4	The mass of the neutron is of the order of	A. 10⁻²³ kg B. 10⁻²⁴ kg C. 10⁻²⁶ kg D. 10⁻²⁷ kg
5	Which of the following is acidic?	A. SO₃ B. N₂O C. BeO D. HgO
6	The rate of reaction between A and B increases by a factor of 100 when the concentration with respect to A is increased 10 folds the order of reaction w.r.t A is	A. 10 B. 1 C. 4 D. 2
7	Reaction of ethylamine with chloroform in alcoholic KOH producers	A. CH₃OH B. CH₃NC C. C₂H₅NC D. C₂H₅CN
8	Setting of plaster of paris involves	A. Oxidation with atmospheric oxygen B. Combination with atmosphere CO₂ C. Dehydration D. Hydration to yield another hydrate.
9	The last orbit of argon would have electrons	A. 8 B. 18 C. 2 D. 6
10	Among the alkaline earth metals the element forming predominantly covalent compounds is	A. Be B. Mg C. Sr D. Calcium
11	The heats evolved in combustion of rhombic and monoclinic sulphur are - 70960 and -71030 cal mol^{-1} respectively what will be heat of conversion of rhombic sulphur ti monoclinic?	A. 70960 calories B. 71030 calories C. -70 calories D. +70 calories
12	Which of the following has greatest reducing power?	A. HI B. Hbr C. HCl D. HI
13	Chile salt petre is	A. NaNO₃ B. Na₂SO₄ C. KNO₃ D.

		Na₂S₂O₃
14	The reference calomel electrode is made from which of the following?	A. ZnCl₂ B. CuSO₄ C. Hg₂Cl₂ D. HgCl₂
15	The weight of 11.2 liters of CO_2 at S.T.P. would be	A. 88 g B. 44 g C. 32 g D. 22 g
16	1-Chloropropane has two isomers It is an example of	A. Chain isomerism B. Position isomerism C. Functional group isomerism D. Metamerism
17	The formula of nitre is	A. KNO₃ B. NaNO₃ C. NaCl D. Na₂CO₃
18	Which is true for an element R present in group 13 of the periodic table?	A. It is a gas at room temperature B. It has oxidation state of +4 C. It forms R₂O₃ D. It forms RX₂
19	The percentage of nitrogen in urea is	A. 46 B. 60 C. 70 D. 80
20	$BiCl_3$ on hydrolysis forms a white precipitate of	A. Bismuthio is acid B. Bismuth oxychloride C. Bismuth pentachloride D. Bismuth hydroxide