

# Edge Educellence

## Sample Paper

(Class X studying moving to Class XI)

(Medical)

### IMPORTANT INSTRUCTIONS

#### A. GENERAL:

- Please read the instructions given for each question carefully and mark the correct answers against the question numbers on the answer sheet in the respective subjects.
- Duration of Test is 1 Hour.
- This Test contains 35 questions divided in 3 sections. Section I and Section II contains questions of Science (Physics, Chemistry and Biology). Section III contains questions of Mental Ability.
- Maximum marks are 70.

#### B. MARKING SCHEME :

Each subject in this paper consists of following types of sections :-

##### ***SECTION - I***

- The section contains **26** questions.
- Each question has four options. ***Only one*** of the four option is correct.
- For each question, marks will be awarded in one of the following categories :  
Full Marks : +2, If only the correct options is marked.  
Zero Marks : 0, In all other cases.

##### ***SECTION - II***

- This section contains **4** questions
- Each question has four options. ***One or more than one*** of the four option(s) is(are) correct.
- For each question, marks will be awarded in one of the following categories :  
Full Marks : +2, If only correct answer is marked  
Zero Marks : 0, In all other cases.

##### ***SECTION - III***

- This section contains **5** questions.
- Each question has four options. Only one option is correct.
- For each question, marks will be awarded in one of the following categories :  
Full Marks : +2, If only the correct option is marked.  
Zero Marks : 0, In all other cases.

***All the Best!***

**Section – I (Single Correct Answer)**

- Which of the following is the connecting link between the aves and reptiles?  
(a) Archaeopteryx (b) Alligator (c) Dinosaurs (d) Amphioxus
- Deficiency of Vasopressin causes a disease called  
(a) Asthma (b) Goiter  
(c) Diabetes insipidus (d) Diabetes mellitus
- Saliva contains an enzyme called  
(a) trypsin (b) Ptyalin  
(c) Lipase (d) Pepsin
- Granular structures present on the rough endoplasmic reticulum are  
(a) Lipids (b) Pupil (c) Sclera (d) Yellow spot
- Name the connecting tissue that connects a muscle to the bone  
(a) Areolar tissue (b) Cartilage (c) Ligament (d) Tendon
- The process of entry of pollutants into a food chain is known as  
(a) Biomass (b) Bio-magnification  
(c) Bio-accumulation (d) Biosphere
- The value of acceleration due to gravity is :  
(a) least on equator (b) least on poles  
(c) same on equator & poles (d) increases from pole to equator
- When white light passes through the prism, color which deviates the least is :  
(a) red (b) blue  
(c) violet (d) green
- Inside a magnet lines of force move from :  
(a) north to south pole (b) away from north pole  
(c) south to north pole (d) away from south pole
- Two parallel wires carrying current in opposite directions :  
(a) attract each other (b) repel each other  
(c) do not affect each other (d) get moved to perpendicular to each other
- The numerical ratio of displacement to distance covered by a moving object is :  
(a) always  $< 1$  (b) always  $= 1$  (c) always  $> 1$  (d)  $=$  or  $< 1$
- Light travels fastest in which of the following materials :  
(a) diamond (b) water (c) glass (d) air
- According to third law of motion, action and reaction :  
(a) Always act on the same body  
(b) Always act on different bodies in opposite direction  
(c) Have same magnitude and direction  
(d) Act on any one of the body at normal to each other
- What will happen on putting dilute HCl on iron powder?  
(a) Hydrogen gas and  $\text{FeCl}_2$  will form  
(b) Chlorine gas and  $\text{FeCl}_2$  will form  
(c)  $\text{FeCl}_2$  and  $\text{H}_2\text{O}$  will form  
(d) Will be no reaction.

15. The number of covalent bonds in ethane are :  
(a) 6 (b) 7 (c) 8 (d) 9
16. If electronic configuration of an atom is 2,8,7, then atomic number of the atoms will be:  
(a) 15 (b) 16 (c) 17 (d) 18
17. Which will have electronic configuration 2, 8, 2?  
(a) Na (b) Mg (c) Al (d) Si
18.  $\text{CH}_4 + \text{Cl}_2 \xrightarrow{\text{sunlight}} \text{CH}_3\text{Cl} + \text{HCl}$ . This reaction is  
(a) substitution (b) Reduction  
(c) Combination (d) Oxidation
19. The name of  $\text{H}-\overset{\text{O}}{\parallel}{\text{C}}-\text{H}$  is :  
(a) Acetone (b) Acetic Acid  
(c) Ethanol (d) Formaldehyde
20. Fruits are formed from the  
(a) Stamen (b) Stigma (c) Ovary (d) Ovule
21. Which of the following diseases is transmitted sexually?  
(a) Kala Azar (b) Jaundice  
(c) Cholera (d) Syphilis
22. A carbon compound contains two atoms of carbon. Which name should the carbon compound bear?  
(a) Butane (b) Ethane (c) Methane (d) Propane
23. Why is wind energy considered a conventional source of energy?  
(a) as it can rotate a windmill  
(b) as it can help in lifting water  
(c) as it readily available and used for a long time  
(d) as it produced due to uneven heating of the Earth
24. Which of these characteristics can help us recognize a good source of fuel?  
(a) physical state (b) availability in all regions  
(c) cost-effective for all countries (d) produces a large amount of energy
25. Which of the following is the molecular formula of cyclobutene?  
(a)  $\text{C}_4\text{H}_{10}$  (b)  $\text{C}_4\text{H}_6$  (c)  $\text{C}_4\text{H}_8$  (d)  $\text{C}_4\text{H}_4$
26. AIDS is a deadly disease which is caused by  
(a) a protozoan (b) a fungus (c) a bacterium (d) a virus
27. What happened to the inhaled air as it passes through the nasal cavity?  
(a) warmed to the body temperature (b) Moistened by mucus  
(c) Both (a) and (b) (d) None of these
28. The resistance of a conductor depends on :  
(a) its area of cross section (b) length  
(c) Both (a) and (b) (d) density

29. In the following reaction, identify the substance that gets reduced:



- (a)  $\text{MnO}_2$  (b)  $\text{HCl}$   
(c)  $\text{Cl}_2$  (d)  $\text{H}_2\text{O}$

30. Which of the following processes takes place in the nephrons of the kidneys?

- (a) Digestion (b) Respiration  
(c) Excretion (d) Transpiration

**Section - II (Single Correct Answer)**

**(Mental Ability)**

31. 10, 100, 200, 310, ?

- (a) 400 (b) 410 (c) 420 (d) 430

32. If 'ROHIT' is coded as 'SPIJU', how will 'MOHIT' be coded?

- (a) NPIJU (b) LNGHS (c) ZATIU (d) None of these

33. Rohan ranks 7<sup>th</sup> from the top and 26<sup>th</sup> from the bottom in a class. How many students are there in the class?

- (a) 31 (b) 32 (c) 33 (d) 34

34. You go North, turn right, then turn right again and then go to the left. In which direction you are now.

- (a) North (b) South (c) East (d) West

35. How many 4's are there in the series below which are preceded by 8 and followed by 0.

840480480480840804804840804.

- (a) 2 (b) 3 (c) 4 (d) 5

# Edge Educellence

## Sample Paper

(Class X studying moving to Class XI)

(Medical)

Edge Educellence

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
(a)	(c)	(b)	(d)	(d)	(c)	(a)	(a)	(c)	(b)
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
(d)	(d)	(b)	(a)	(b)	(c)	(b)	(a)	(a)	(c)
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
(d)	(b)	(c)	(d)	(c)	(d)	(c)	(c)	(a)	(c)
31.	32.	33.	34.	35.					
(d)	(a)	(b)	(c)	(b)					