

Edge Educellence

Sample Paper

(Class VII studying moving to Class VIII)

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) and Mathematics. Section III contains questions of Mental Ability.
- Maximum marks are 140.

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 : +4, If only the correct options is marked.
Zero Marks : 0, If none of the option is marked.
Negative Marks : - 1, 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 : +4 If only correct answer is marked
Zero Marks : 0, If none of the option is marked
Negative Marks : - 1, In all other cases.

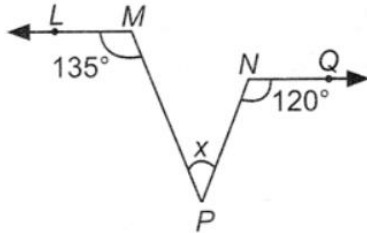
SECTION - III

- 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 : +4, If only the correct option is marked.
Zero Marks : 0, If none of the option is marked.
Negative Marks : - 1, In all other cases.

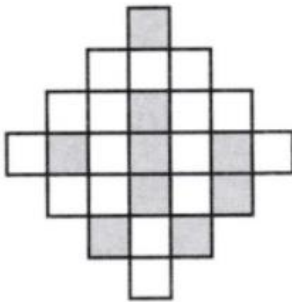
All the Best!

Section – I (Single Correct Answer)

- If a grown up elephant eats 136 kg of food each day, how much will elephant eat in a month (30 days)?
 (a) 4000 (b) 3750 (c) 4080 (d) 4132
- The ratio of number of 10 rupee notes to 20 rupee notes in a purse is 3 : 4. If there are total 84 notes in the purse, then how much money is there in the purse?
 (a) Rs. 1320 (b) Rs. 1230 (c) Rs. 1100 (d) Rs. 1260
- Given that $LM \parallel NQ$, $\angle LMP = 135^\circ$ and $\angle QNP = 120^\circ$. Find the value of x .



- (a) 60° (b) 75° (c) 135° (d) 120°
- How many more unit squares in the figure must be shaded so that the fraction of unshaded squares becomes $\frac{2}{5}$?



- (a) 5 (b) 6 (c) 3 (d) 2
- The following are the margins of victory in the matches of a football league:
 3, 2, 1, 5, 6, 4, 2, 1, 3, 1, 2, 1, 4, 2, 5, 5, 6, 2, 3, 2
 Find the mean of the data.
 (a) 2 (b) 3 (c) 2.5 (d) 3.5
 - Tani decides to spend Rs. 900 for distributing food items to poor children. But, she has only Rs. 420. So, she decides to do a typing job that can earn her Rs. 60 per hour. Form an equation in terms of x , if she works for x hours.
 (a) $60x = 420 - 900$
 (b) $900 - 60x = -420$
 (c) $420x - 60 = 900$
 (d) $420 + 60x = 900$
 - A rectangular grassy land is 65 m long and 50 m broad. It is surrounded by 3 m wide path. Find the cost of gravelling the path at Rs. 2.50 per m^2 .
 (a) Rs. 1500 (b) Rs. 1518 (c) Rs. 1815 (d) Rs. 1960
 - A is a metallic plate and B is a wooden plate. A feels colder as compared to B during winters. Which of the following properties of the metallic plate causes this effect?
 (a) It is a bad conductor of heat.

- (b) It is a good conductor of heat.
(c) The metallic plate has a shiny surface.
(d) None of these
9. The temperature of Raj's room is 25°C , while that of Simran's room is 77°F . Choose the correct option describing the situation.
(a) The temperature of Raj's room more than the temperature of Simran's room
(b) The temperature of Simran's room is more than that of Raj's room.
(c) Both rooms have the same temperature.
(d) Nothing can be said.
10. Motion of hands while running is known as
(a) Translatory motion (b) Rectilinear motion
(c) Oscillatory motion (d) Non-periodic motion
11. The distance between two buses is 50 km, they are running in the same direction with the speed of 40 km/h and 50 km/h, respectively. Find the time taken by one bus to cross the other.
(a) 4 hours (b) 5 hours (c) 2 hours (d) 3 hours
12. What is the combination of two or more cells known as?
(a) Remote (b) Battery
(c) Spark (d) Charge
13. Fuse is an application of
(a) Heating effect of current
(b) Magnetic effect of current
(c) Chemical effect of current
(d) Physical effect of current
14. What is the correct reason for making holes in big banners, meant for promotional purposes?
(a) Air takes space.
(b) Air can be compressed.
(c) Air exerts pressure.
(d) Air is affected by heat.
15. Which of the following options is/are TRUE?
(a) Algae contain chlorophyll which gives them the green colour.
(b) The main components present in carbohydrates are carbon, hydrogen and oxygen.
(c) Stomata are the tiny pores present on the surface of leaves, which help in exchange of gases.
(d) All of the above.
16. Which of the following is used by a dentist to see the enlarged image of teeth of patients?
(a) Concave lens (b) Convex lens (c) Concave mirror (d) Plane mirror
17. The process X, is digestion of animal waste and production of biogas.
The process Y is the use of biogas as fuel.
Choose the correct option illustrating the processes X and Y?
(a) X is a chemical change and Y is a physical change.
(b) X is a physical change and Y is a chemical change.
(c) Both the processes involve physical changes.
(d) Both the processes involve chemical changes.

18. It is an animal and its adaptation is that it is white in colour in order to merge into the background, and its streamlined body and webbed feet make it a swift swimmer. Name the animal.
(a) Sea turtle (b) Penguin (c) Snow leopard (d) Arctic fox
19. In which of the following regions, would animals have adaptations like sticky pads, loud voice, bright colours, strong tails?
(a) Tropical rainforests (b) Deserts
(c) Polar regions (d) Aquatic regions
20. Dhruvan rears silkworms to obtain silk from them. What is this process known as?
(a) Sericulture (b) Silviculture (c) Vermiculture (d) Apiculture
21. It is an organism that survives on dead and decaying organic matter. Which of the following is this organism?
(a) Amoeba (b) Cuscuta (c) Fungus (d) Pitcher plant
22. Which of the following forms the floor of the chest cavity?
(a) Diaphragm (b) Lungs (c) Ribs (d) Nasal cavity
23. X is the process of depositing a layer of zinc on iron, in order to prevent rusting. What is the process called?
(a) Painting (b) Electroplating (c) Galvanization (d) Alloy formation
24. Analyze the two statements given below and select the correct option.
Statement I : Milk of magnesia is used as a remedy for acidity.
Statement II : Milk of magnesia is basic in nature.
(a) Both statements I and II are correct and II is the correct reason for I.
(b) Both statements I and II are correct, but II is not the correct reason for I.
(c) Statement I is correct, but statement II is incorrect.
(d) Both statements I and II are incorrect.
25. Y is a substance that contains zinc carbonate, having basic nature, and is applied to the skin when an ant bites.
By which of the following names is Y commonly known?
(a) Calamine solution (b) Ammonia
(c) Milk of Magnesia (d) Antacid
26. Which of the following options is TRUE?
(a) Most liquids that conduct electricity are solutions of acids, bases and salts.
(b) The passage of electric current through a solution causes a chemical effect.
(c) If you pass current through a copper sulphate solution, copper gets deposited on the plate connected to the negative terminal of the battery.
(d) All of the above.

Section - II (More than One Correct answer)

27. Which of the following factors does not affect photosynthesis?
(a) Temperature (b) Light Intensity
(c) Oxygen (d) None of these
28. Which of the following statement is not true for all triangles?
(a) The sum of all interior angles is 180° .
(b) Each exterior angle is equal to the sum of the opposite interior angles.
(c) All medians of a triangle are equal in length.

- (d) The length of any one side is less than the sum of the other two sides.
29. Which of the following statements about conductors and insulators of heat is incorrect?
- (a) Metals are good conductors of heat.
 - (b) Wood is a good conductor of heat.
 - (c) Plastic is an insulator of heat.
 - (d) Iron rod heats up faster than a wooden rod of the same size.
30. Which of the following indicators can be used to detect the acidic nature of vinegar?
- (a) Phenolphthalein
 - (b) Turmeric
 - (c) Methyl orange
 - (d) None of these

Section – II (Single Correct Answer)

(Mental Ability)

31. In a certain code language, the word MEDICATE is written as GVCEKFGO. How will the word VALIDATE be written in that language?
- (a) XCNFKCVG
 - (b) XCMJFCUF
 - (c) GVCFKNCX
 - (d) GVCTLODW
32. If each of the odd digits in the number 147832 is increased by 1 and each of the even digits is decreased by 1, then the sum of the digits of the new number formed.
- (a) 25
 - (b) 21
 - (c) 20
 - (d) 19
33. Town X is towards west of town Y. Town Z is towards south of town X. Town B is towards south of town Z. In which direction is town X with respect to town B?
- (a) North
 - (b) South
 - (c) Northeast
 - (d) Southwest
34. Reema is the sister of Vipin. Sudha is the mother of Vipin. Jagdish is the father – in – law of Sudha. How is Reema related to Jagdish?
- (a) Sister
 - (b) Daughter
 - (c) Granddaughter
 - (d) Daughter – in - law
35. Select a term from the options which will continue the given series.
B35Y, D30W, F25U, H20S, ____?____
- (a) I25S
 - (b) I20R
 - (c) J15Q
 - (d) J15R

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