Edge Educellence

Sample Paper

(Class VIII studying moving to Class IX)

<u>IMPORTANT INSTRUCTIONS</u>

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.
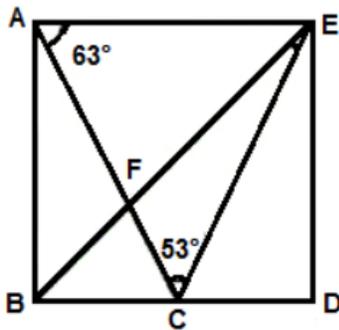
  SECTION - III

- 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)

1. What is the primary constituent in the mixture of natural gas ?
   (a) Methane   (b) Hydrogen   (c) Butane   (d) Magnesium

2. Which of the following is responsible for Malaria disease?
   (a) Rhizobium   (b) Plasmodium   (c) Ascaris   (d) Enterobius vermicularis

3. Which of the following is an advantage of being a multicellular organism ?
   (a) It allows the organism to be larger   (b) Cell differentiation occurs in it
   (c) Both (a) and (b)   (d) It allows the organism to change its shape

4. Which of the following is a mixture of different gases produced by the breakdown of organic matter in the absence of oxygen?
   (a) Biomass   (b) Biogas   (c) Biofuel   (d) Biodiesel

5. Which of the following cannot be used to form petroleum?
   (a) Organisms on the sea floor   (b) Remains of ancient marine organisms
   (c) Living plants   (d) Both (a) and (b)

6. Which disease is caused by H1N1 virus in humans?
   (a) Diabetes   (b) Malaria   (c) Typhoid   (d) Swine flu

7. In which of the following options is fermentation by bacteria possible ?
   (a) Curing and flavouring of tea and tobacco
   (b) Treatment of hide to fine leather
   (c) Retting of flax to obtain fibre
   (d) All of the above

8. Which of the following function(s) in the sorting and delivery of internalized material from the cell surface and the transport of materials from the Golgi to the lysosome or vacuole?
   (a) Endosomes   (b) Cytoplasm
   (c) Karyon   (d)None of these

9. Which of the following species have been categorized by the International Union for Conservation of Nature as likely to become endangered unless the circumstances threatening their survival and reproduction improve?
   (a) Extinct Species   (b) Endangered Species
   (c) Vulnerable Species   (d) All of the above

10. Bauxite is an ore of which metal ?
    (a) Copper   (b) Gold
    (c) Aluminium   (d) Iron

11. A place where animals are protected in their natural habitat is called a
    (a) Zoo   (b) sanctuary (c) village   (d) biome

12. The process of depositing a layer of any desired metal on another material by means of electricity is known as
    (a) electrical wiring   (b) electroplating
    (c) alloying   (d) galvanization

13. What is the process of loosening the edible pat of cereal grain (or other crop) from the scaly, inedible chaff that surrounds it called?
    (a) Sieving   (b) Winnowing   (c) Threshing   (d) Hand picking

14. Which one of the below options is a good conductor of electricity?
    (a) Lemon Juice
    (b) Plastic
    (c) Rubber
    (d) Wood
15. What is the sound with frequency between 20 Hz and 20,000 Hz called?
    (a) Audible sound
    (b) Inaudible sound
    (c) Ultrasonic sound
    (d) Infrasonic sound
16. Name the constellation that appears in the sky during winter time in the late evenings.
    (a) Ursa Major   (b) Orion   (c) Cassiopeia   (d) None of these
17. Which of the following materials is only obtained from animals?
    (a) Cotton   (b) Nylon   (c) Polyester   (d) Wool
18. Name a device which is used to detect, measure and find the nature of a charge.
    (a) Spectroscope   (b) Stethoscope (c) Microscope   (d) Electroscope
19. Which force is used to separate solid pollutant particles from smoke emitted by factories?
    (a) Muscular force   (b) Frictional force
    (c) Electrostatic force   (d) Gravitational force
20. If $x^2 + y^2 = 47$ and $xy = \frac{19}{2}$, then the value of $2(x + y)^2 + (x - y)^2$ is
    (a) 160   (b) 270   (c) 226   (d) 86
21. In the given figure, EB is the diagonal of square EDBA. Find $\angle CEF$ and $\angle ECD$.
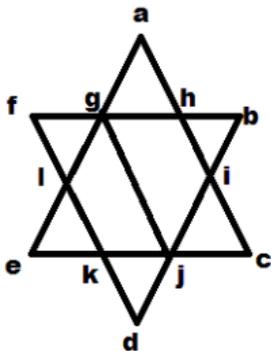

    (a) $22^0, 60^0$ (b) $22^0, 64^0$ (c) $19^0, 64^0$ (d) $19^0, 60^0$
22. Find the probability of getting 'A' from the word ATTACHES.
    (a) $\frac{1}{3}$ (b) $\frac{1}{2}$ (c) $\frac{1}{4}$ (d) 1
23. If 35% of a number is 12 less than 50% of that number, then the number is
    (a) 40   (b) 50   (c) 60   (d) 80
24. The radius of a wheel is 0.25 metres. Find the number of revolutions it will make to travel a distance of 11 km.
    (a) 2800   (b) 4000
    (c) 5500   (d) 7000
25. A train 270 m long is moving with a speed of 25 km/hr. In what time will it cross a man coming from the opposite direction with a speed of 2km/hr in which the train is moving?
    (a) 36 sec   (b) 32 sec

(c) 28 sec   (d) 24 sec

26. A shopkeeper offers 3.5% discount on cash purchases. What cash amount would Trishi pay for a dress, if the marked price of the dress is Rs. 1250?

(a) Rs. 1204.75   (b) Rs. 1205   (c) Rs. 1206   (d) Rs. 1206.25

27. Identify the incorrect statement.

(a) The main purpose of muscles is to produce force and motion

(b) Tendons connect our soft contracting muscles to our hard bones.

(c) There are no skeletal muscles in a human body

(d) There are three types of muscles: Skeletal, Cardiac and Smooth

28. Which of the following statement is correct?

(a) The loudness of the sound of normal breathing is measured in meters.

(b) Frequency of a sound determines the shrillness or pitch of the sound.

(c) Wavelength of a sound varies with the loudness of the sound.

(d) All of the above

29. Which of the following are physical changes?

(a) Melting of ice   (b) Rusting of iron

(c) Dissolving sugar in water   (d) Both (a) and (c)

30. Which of the following statements is false for a parallelogram?

(a) Opposite sides are equal   (b) Opposite angles are equal

(c) Diagonals are always equal   (d) Diagonals bisect each other

Section – II (Single Correct Answer)
(Mental Ability)

31. In a certain code language, the word PATIENCE is written as TPNIEECA. How will the word SPACIOUS be written in that language?

(a) ASOCSUIP   (b) USSPOICA   (c) USPSOICA   (d) ACOSSUIP

32. How many triangles are there in this picture?

(a) 10   (b) 9   (c) 7   (d) 5

33. A man walks 5 km towards south and then turns to the right. After walking 3 km, he turns to the left and walks 5 km. In which direction is he now with respect to the starting point?

(a) West   (b) South   (c) Northeast   (d) Southwest

34. Arrange the words given below in a meaningful sequence.

(a) 5, 1, 2, 4, 3

(b) 4, 2, 1, 5, 3

(c) 1, 3, 2, 4, 5

(d) 1, 2, 3, 5, 4

35. If Sumer is standing 123rd from the left and 45th from the right in a row, then how many persons are standing in that row?

(a) 168 (b) 167 (c) 159 (d) 140

Edge Educellence

Sample Paper

(Class VIII studying moving to Class IX)

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