

**ATOMIC ENERGY EDUCATION SOCIETY**  
**MULTIPLE CHOICE QUESTION TEST (2019 AUGUST)**  
**MATHEMATICS**

CLASS : IX  
SUBJECT: MATHEMATICS

TIME: 01 Hour  
MAX.MARKS: 40

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Name: \_\_\_\_\_ Sec / Roll No: \_\_\_\_\_

Signature of Invigilator: \_\_\_\_\_ Signature of Examiner: \_\_\_\_\_

Instruction: Write the correct option in the [ ] given against the corresponding question.

1.  $\sqrt{2}$  Is a polynomial of degree [ ]  
a) 2                      b) 0                      c) 1                      d)  $\frac{1}{2}$
  
2. Degree of a zero polynomial is [ ]  
a) 0      b) 1                      c) any real number                      d) not defined
  
3. Equation of x-axis is [ ]  
a)  $y=0$       b)  $x=0$       c)  $xy=0$                       d)  $x/y=0$
  
4. Zero of a zero polynomial is [ ]  
a) 0                      b) 1                      c) any natural number      d) any real number
  
5.  $0.765765..... =$  [ ]  
a)  $\frac{83}{111}$                       b)  $\frac{86}{111}$                       c)  $\frac{85}{111}$                       d)  $\frac{79}{111}$
  
6. Abscissa of all points on the x-axis is [ ]  
a) 0                      b) 1                      c) 2                      d) any number
  
7. Point (-3,5) lies in the [ ]  
a) I quadrant      b) II quadrant      c) III quadrant                      d) IV quadrant
  
8. The point at which the two co-ordinate axes meet is called the [ ]  
a) abscissa                      b) ordinate                      c) origin                      d) quadrant

9.  $\sqrt{10} \times \sqrt{15}$  is equal to [     ]  
a)  $6\sqrt{5}$      b)  $5\sqrt{6}$      c)  $\sqrt{25}$      d)  $10\sqrt{5}$

10. An irrational number between 2 and 3 is [     ]  
a)  $\sqrt{2}$      b)  $\sqrt{3}$      c)  $\sqrt{6}$      d)  $\sqrt{12}$

11. If  $P(x) = x + 3$ , then  $P(x) + P(-x)$  is equal to [     ]  
a) 3     b)  $2x$      c) 0     d) 6

12. Every rational number is [     ]  
a) A natural number     b) an integer     c) a real number     d) a whole number

13. The value of  $\sqrt{8} + \sqrt{18}$  is [     ]  
 $\sqrt{26}$      b)  $2(\sqrt{2} + \sqrt{3})$      c)  $5\sqrt{2}$      d)  $6\sqrt{2}$

14. A rational number between  $\frac{1}{2}$  and  $\frac{1}{3}$  is [     ]  
a)  $\frac{1}{5}$      b)  $\frac{2}{5}$      c)  $\frac{3}{5}$      d)  $\frac{4}{5}$

15. If  $p(x) = kx$ ,  $k \neq 0$ , then zero of  $p(x)$  is [     ]  
a) 0     b) 1     c)  $k$      d)  $-k$

16. Abscissa of a point is positive in [     ]  
a) I and II quadrants     b) I and IV quadrants     c) I quadrant only     d) II quadrant only.

17. The point which lies on y- axis at a distance of 5 units in the [     ]  
negative direction of y- axis is  
(a) (0,-5)     (b) (5, 0)     (c) (0, 5)     (d) (-5, 0)

18. The value of  $(256)^{0.16} \times (256)^{0.09}$  is [     ]  
(a) 4     (b) 16     (c) 64     (d) 256.25

19. The degree of the polynomial  $P(x) = (x - 2)^3 - x^3$  is [     ]  
(a) 2     (b) 0     (c) 1     (d) 3

20. If  $x^{31} + 31$  is divided by  $(x + 1)$  then remainder is [       ]  
 (a) 2                      (b) 30                      (c) 1                      (d) 32
21. The number of dimensions for a point is [       ]  
 (a) 0                      (b) 1                      (c) 2                      (d) 3
22. The point which lies on x- axis at a distance of 5 units in the negative direction of x- axis is [       ]  
 (a) (0, -5)              (b) (5, 0)              (c) (0, 5)              (d) (-5, 0)
23. The coordinate axes divide the plane into four parts which are called [       ]  
 (a) Axis                      (b) origin                      (c) ordinate                      (d) quadrants
24.  $2\sqrt{3} + \sqrt{3}$  is equal to [       ]  
 (a)  $2\sqrt{6}$                       (b) 6                      (c)  $3\sqrt{3}$                       (d)  $4\sqrt{6}$
25. If the point (3,4) lies on the graph of the equation  $3y = ax + 7$ , the value of a is [       ]  
 (a)  $5/3$                       (b)  $3/4$                       (c)  $4/3$                       (d)  $3/5$
26. The rationalising factor of  $\sqrt{50}$  is [       ]  
 (a)  $\sqrt{5}$                       (b)  $\sqrt{6}$                       (c)  $\sqrt{25}$                       (d)  $\sqrt{2}$
27. The value of  $\sqrt{20} \times \sqrt{5}$  is [       ]  
 (a) 10                      (b)  $2\sqrt{5}$                       (c)  $20\sqrt{5}$                       (d)  $4\sqrt{5}$
28. Add  $5\sqrt{2} + 3\sqrt{3}$  and  $2\sqrt{2} - 5\sqrt{3}$  [       ]  
 (a)  $7\sqrt{2} - 2\sqrt{3}$               (b)  $6\sqrt{2} - 3\sqrt{3}$               (c)  $6\sqrt{2} - 8\sqrt{3}$               (d)  $6\sqrt{2} + 8\sqrt{3}$
29. Which of the following is a rational number? [       ]  
 (a)  $\sqrt{5}$                       (b)  $\pi$                       (c) 0.2020020002..              (d) 0.8585
30. Which is irrational? [       ]  
 (a) 0.23                      (b) 0.61816181..              (c) 0.618181...              (d) 0.515511...

31. Two rational numbers between  $\frac{2}{3}$  and  $\frac{5}{3}$  are [       ]

- (a)  $\frac{1}{6}$  and  $\frac{2}{6}$     (b)  $\frac{1}{2}$  and  $\frac{2}{1}$     (c)  $\frac{5}{6}$  and  $\frac{7}{6}$     (d)  $\frac{2}{3}$  and  $\frac{4}{3}$

32. Every irrational number is [       ]

- (a) a natural number    (b) an integer    (c) a real number    (d) a whole number

33. The decimal expression of  $\sqrt{3}$  is [       ]

- (a) finite decimal    (b) 1.731  
(c) non-terminating repeating    (d) non-terminating non-recurring.

34. The coefficient of the variable  $y$  in the [       ]

linear equation  $5(2x - y) + 3x + 4y - 7 = 0$  is

- (a) 13    (b) -9    (c) -1    (d) 9

35. The graph of the linear equation  $2x + 3y = 6$  cuts the  $y$ -axis at the point [       ]

- (a) (2,0)    (b) (0,3)    (c) (3,0)    (d) (0,2)

36. Any point on the line  $y = x$  is of the form [       ]

- (a) (a, a)    (b) (0, a)    (c) (a, 0)    (d) (a, -a)

37. The number of linear equations in  $x$  and  $y$  which can be [       ]

satisfied by  $x = 1$  and  $y = 2$  is

- (a) Only one    (b) two    (c) three    (d) infinitely many

38. The point (a, -a) does not lie on the graph of [       ]

- (a)  $x = a$     (b)  $y = -a$     (c)  $y = x$     (d)  $x + y = 0$

39. A solution of the equation  $2x + 5y - 3 = 0$  is [       ]

- (a) (5, -2)    (b) (-5, 2)    (c) (-1, 1)    (d) (1, -1)

40. The equation  $y + 3 = 0$  represents a line [       ]

- (a) parallel to  $y$ -axis    (b) parallel to  $x$ -axis  
(c) passing through origin    (d) passing through the point (-3, 0).

M C Q TEST  
MATHEMATICS

STD IX

TIME: 1 Hr  
MM : 40

ANSWER KEY

- |                            |  |
|----------------------------|--|
| 1.(b) 0                    | 23. (d ) quadrants                     |
| 2. (d) not defined         | 24.(c) $3\sqrt{3}$                     |
| 3. (a) $y = 0$             | 25. (a) $\frac{5}{3}$                  |
| 4. (d) any real number     | 26. (d) $\sqrt{2}$                     |
| 5. (c) $\frac{85}{111}$    | 27. (a) 10                             |
| 6. (d) Any number          | 28.(a) $7\sqrt{2} - 2\sqrt{3}$         |
| 7. (b)II quadrant          | 29. (d) 0.8585                         |
| 8. (c) origin              | 30.(d) 0.515511...                     |
| 9. (b) $5\sqrt{6}$         | 31.(c) $\frac{5}{6}$ and $\frac{7}{6}$ |
| 10.(c) $\sqrt{6}$          | 32.(c) a real number                   |
| 11. (d) 6                  | 33. (d) non-terminating non-recurring  |
| 12. (c) a real number      | 34.(c) $-1$                            |
| 13. (c) $5\sqrt{2}$        | 35.(d) (0,2)                           |
| 14 .(b) $\frac{2}{5}$      | 36.(a) (a,a)                           |
| 15. (a) 0                  | 37.(d) infinitely many                 |
| 16. (b) I and IV quadrants | 38. (c) $y = x$                        |
| 17. (a) (0,-5)             | 39. (c) (- 1 ,1)                       |
| 18. (a) 4                  | 40. (b) parallel to x - axis           |
| 19. (a) 2                  |  |
| 20. (b) 30                 |  |
| 21 .(a) 0                  |  |
| 22. (d) (-5,0)             |  |

ATOMIC ENERGY EDUCATION SOCIETY

MULTIPLE CHOICE QUESTION TEST (AUGUST – 2019)

Class: IX  
Subject: Science

Time: 01 Hour  
Max. Marks: 40

Student Name: \_\_\_\_\_ Section / Roll No: \_\_\_\_\_

Sign of Invigilator: \_\_\_\_\_ Sign of Examiner: \_\_\_\_\_

- 
- 1 Newton's First Law of Motion gives the concept of [ ]  
a. Energy                      b. Work                      c. Momentum                      d. Inertia
  - 2 If the net force acting on a body is doubled the acceleration of the body is [ ]  
a. Halved                      b. Doubled                      c. Unchanged                      d. Quadrupled
  - 3 A cricket player while taking a catch lowers his hand to [ ]  
a. Increase time of impulse                      b. Decrease time of impulse  
c. Take catch safely                      d. Increase the area of impact
  - 4 If velocity of a particle is uniform, then its acceleration would be [ ]  
a. Positive                      b. Negative                      c. Very low                      d. Zero
  - 5 The area under a Speed-Time graph is represented in unit of [ ]  
a. m                      b.  $m^2$                       c.  $m^3$                       d.  $m^{-1}$
  - 6 If a particle covers equal distances in equal intervals of time, it is said to [ ]  
a. Be it rest                      b. Moves with uniform speed  
c. Moves with uniform velocity                      d. Moves with uniform acceleration
  - 7 A force of a given magnitude acts on a body. The acceleration of the body depends [ ]  
on the  
a. Mass of the body                      b. Volume of the body  
c. Density of the body                      d. Shape of the body
  - 8 A body moving along a straight line at  $20 \text{ m s}^{-1}$  undergoes an [ ]  
acceleration of  $-4 \text{ m s}^{-2}$ . The speed after 2 s will be  
a.  $-8 \text{ m s}^{-1}$                       b.  $12 \text{ m s}^{-1}$                       c.  $16 \text{ m s}^{-1}$                       d.  $2 \text{ m s}^{-1}$
  - 9 The slope of Velocity-Time graph is [ ]  
a. Speed                      b. Velocity                      c. Acceleration                      d. Momentum
  - 10 The numerical ratio of displacement to distance for a moving body is [ ]  
a. Equal to or less than 1                      b. Always higher than 1  
c. Always equal to 1                      d. Always less than 1



- 22 512 Kelvin =? [     ]  
 a. 259 °C                      b. 249 °C                      c. 293 °C                      d. 239 °C
- 23 What is the physical state of water at 100 °C ? [     ]  
 a. Liquid                      b. Solid                      c. Gas                      d. Plasma
- 24 The process used to convert solid into liquid by heating is : [     ]  
 a. Solidification              b. Condensation              c. Fusion                      d. Evaporation
- 25 Which of the following is **not** the example of homogeneous mixture? [     ]  
 a. NaCl                      b. Fe +S                      c. CaCO<sub>3</sub>                      d. FeS
- 26 The process used to convert liquid into gas at its boiling point is : [     ]  
 a. Vaporization              b. Condensation              c. Fusion                      d. Evaporation
- 27 The dispersed phase and dispersion medium in clouds is:- [     ]  
 a. Liquid & Gas              b. Solid & Gas              c. Gas & Liquid              d. Gas & Gas
- 28 Which of the following is the example of an element? [     ]  
 a. CO<sub>2</sub>                      b. CO                      c. Co                      d. CaCO<sub>3</sub>
- 29 Which of the following will exhibit Tyndall effect? [     ]  
 a. Sugar solution    b. Salt solution  
 c. Starch solution    d. CuSO<sub>4</sub> solution
- 30 Which of the following factors increases the rate of evaporation? [     ]  
 [i] Wind speed    [ii] Humidity  
 [iii] Increase in temperature    [iv] Nature of Liquid
- a. Only [i] , [ii] & [iii]    b. Only [ii] , [iii] & [iv]  
 c. Only [i] , [ii] & [iv]    d. Only [i] , [iii] & [iv]
- 31 Which of the following pair is incorrect pair? [     ]  
 a. Nucleus – Brain of the cell  
 b. Mitochondria – Power house of the cell  
 c. Chloroplast – Kitchen of the cell  
 d. Lysosome – Secretary granules
- 32 Identify the phenomenon by which protoplast of a cell shrinks from the wall [     ]  
 a. Plasmolysis              b. Deplasmolysis              c. Osmosis                      d. diffusion
- 33 Which of the following is not a function of vacuole? [     ]  
 a. Storage    b. Water Excretion  
 c. Locomotion    d. Providing turgidity and rigidity to the cell.



- 34 A prepared slide to be viewed under a compound microscope is focused first under [       ]  
a. 15 X       b. 10 X       c. 40 X       d. 100 X
- 35 Which of the following is covered by a single membrane? [       ]  
a. Mitochondria       b. Vacuole       c. Nucleus       d. Plastids
- 36 Which cell organelle plays a crucial role in detoxifying many poisons and drugs in a cell? [       ]  
a. Golgi apparatus       b. lysosomes  
c. Smooth endoplasmic reticulum       d. Vacuoles
- 37 The term “Protoplasm” for the living substance was used by? [       ]  
a. Purkinje       b. Robert Hooke  
c. Robert brown       d. None of these
- 38 Cork is impervious to water because it has deposition of [       ]  
a. lignin       b. Pectin       c. Suberin       d. All of these
- 39 Heart muscles are [       ]  
a. Voluntary and striated       b. Involuntary and striated  
c. Voluntary and multinucleate       d. Involuntary , striated and uninucleate
- 40 Which meristem help in increasing girth of the plant? [       ]  
a. Apical meristem       b. Lateral meristem  
c. Intercalary meristem       d. Both a and b

**AES**  
**MCQ TEST**  
**CLASS : IX**  
**SUBJECT: SCIENCE**

1. d. Inertia
2. b. Doubled
3. a. Increase time of impulse
4. d. Zero
5. a. m
6. b. Moves with uniform speed
7. a. Mass of the body
8. b. 12 m s<sup>-1</sup>
9. c. Acceleration
10. a. Equal to or less than 1
11. b. Balanced force
12. d. N s
13. c. Resist any change in its state of motion
14. d. Acceleration
15. b. kg
16. a. The particles of matter are very-very closed.
17. c. Solute particles in a colloidal solution can be separated by filtration.
18. b. They have less inter molecular space than solids.
19. d. FeS
20. b. 15%
21. c. Air<Water<Glucose
22. d. 239°C
23. c. Gas
24. c. Fusion
25. b. Fe+S
26. a. Vaporization
27. a. Liquid and Gas
28. c. Co
29. c. Starch solution
30. d. Only [i], [iii] & [iv]
31. d. Lysosome – Secretary granules
32. a. Plasmolysis
33. c. Locomotion
34. b. 10 X
35. b. Vacuole
36. c. Smooth endoplasmic reticulum
37. a. Purkinje
38. c. Suberin
39. d. Involuntary , striated and uninucleate
40. b. Lateral meristem

**ATOMIC ENERGY EDUCATION SOCIETY**

**MUTIPLE CHOICE QUESTIONS TEST (AUGUST 2019)**

**CLASS: IX**

**TIME: 1 HOUR**

**SUB: SOCIAL SCIENCE**

**MARKS: 40**

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**Name of the Student:** \_\_\_\_\_ **Section-Roll No:** \_\_\_\_\_

**Sign of Invigilator:** \_\_\_\_\_ **Sign of Examiner:** \_\_\_\_\_

**INSTRUCTIONS:-**

(i) Attempt all the questions. Each question carries one mark.

(ii) Choose the right answer and write its corresponding alphabet in the bracket provided against the question.

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1. Which French philosopher refuted the doctrine of the divine and absolute right of the monarch? ( )  
a) Maxmillian Robespierre   b) Jean Jacques Rousseau   c) Montesquieu   d) John Locke
2. What was the name of the direct tax paid by the third estate to the state? -----( )  
a) Tithe                      b) Taille                      c) Livre                      d) Revenue
3. The term Old Regime is usually used to describe -----( )  
a) The society and institution under an old Emperor  
b) Society and institution of France before 1789  
c) The society and institution of France after 1789  
d) The society and institution of France under the Jacobins
- 4 .At which of the following battles was Napoleon finally defeated?----- ( )  
a) Paris                      b) Versailles                      c) Waterloo                      d) Elba

5. Who wrote an influential pamphlet called 'Declaration of the rights of Woman and Citizen?--- ( )
- a) Rbbe –Sieges      b)Mirabeau    c) John Locke      d) Olympe de Gouges
6. In the 'Spirit of the Laws' Montesquieu proposed----- ( )
- a) A division of powers between the King and the Church  
 b) A division of powers between men and women  
 c) A division of powers between three organs of the government  
 d) A division of powers between the King and the peasants
7. Which of the following states shares an international boundary?----- ( )
- a) Haryana      b) Jharkhand      c) Uttarakhand      d) Madhya Pradesh .
8. Area –wise which is the largest state of India? ----- ( )
- a) Madhya Pradesh    b) Maharashtra    c) Rajasthan    d) Andhra Pradesh
9. The area of India in million square km is -----( )
- a) 2.28                  b) 3.24                  c) 3.28                  d) 3.78
10. From Gujarat to Arunachal Pradesh the time lag is ----- ( )
- a) 2hrs 15 min      b) 2hrs 30 min      c) 1 hr 45 min      d) 2hrs
11. The Standard Meridian of India passes through Mirzapur in the state of ----- ( )
- a) Bihar                  b) Madhya Pradesh      c) Andhra Pradesh      d) Uttar Pradesh
12. Which of the following countries is larger than India in terms of land area?----- ( )
- a) Russia                  b) New Zealand      c) South Africa      d) Great Britain
13. The river which has the largest inhabited riverine islands in the world----- ( )
- a) Ganga                  b) Indus                  c) Yamuna                  d) Brahmaputra
14. The largest river of the Indian desert is ----- ( )
- a) Chambal                  b) Betwa                  c) Indus                  d) Luni
15. Which type of soil is found in Deccan Trap region ?----- ( )
- a)Black soil                  b) Alluvial soil      c) Arid soil                  d) Laterite soil
16. Which of the following is composed of corals?----- ( )
- a) Lakshadweep      b) Andaman and Nicobar      c) Puducherry      d) Malabar
17. Which physiographic division is the storehouse of minerals?----- ( )
- a) Himalayas                  b) Peninsular Plateau      c) Northern Plains      d) Island groups

18. The largest salt water lake of India----- ( )  
 a) Sambhar                      b) Pulicat                      c) Chilika                      d) Kolleru
19. Which range is composed of unconsolidated sediments brought down by the rivers?----- ( )  
 a) Himachal                      b) Purvanchal                      c) Shiwaliks                      d) Himadri
20. What are the newer younger deposits of flood plains called?----- ( )  
 a) Kankar                      b) Bhangar                      c) Khadar                      d) Bhabar
21. Which is the main production activity in villages across India?----- ( )  
 a) Small shop-keeping                      b) Dairy farming                      c) Cultivation of crops                      d) Transport
22. Physical Capital includes----- ( )  
 a) Fixed Capital                      b) Working Capital                      c) Human Capital                      d) Fixed and Working Capital
23. Name the most common way of increasing production on a given piece of land.----- ( )  
 a) Single cropping                      b) Double cropping                      c) Multiple cropping                      d) Use of fertilizers
24. Which is the most abundant factor of production in India?----- ( )  
 a) Land                      b) Labour                      c) Capital                      d) Fixed Capital
25. Production of any type of good or service requires the services of ----- ( )  
 a) Land                      b) Labour                      c) Capital                      d) All of these
26. In rural areas there is mainly----- ( )  
 a) Seasonal and disguised unemployment                      b) Frictional unemployment  
 c) Educated unemployment                      d) Technological unemployment
27. Sarva Siksha Abhiyan is a significant step towards providing ----- ( )  
 a) General Education                      b) Middle Education                      c) Elementary Education                      d) Higher Education
28. Economic activities include----- ( )  
 a) Market and non-market activities                      b) profit                      c) Market activities                      d) Flow of goods and service
29. Primary sector constitutes the activities relating to exploitation of ----- ( )  
 a) Man-made resources                      b) National resources                      c) Natural resources                      d) Raw-material
30. The quality of population depends on ----- ( )  
 a) Literacy rate                      b) Health                      c) Life expectancy                      d) All of these
31. Democracy is a form of government----- ( )  
 a) in which a small group rules                      b) all the people take collective decisions  
 c) the rulers are elected by the people                      d) The rulers are elected by a group of people



**ATOMIC ENERGY EDUCATION SOCIETY**  
**MULTIPLE CHOICE QUESTIONS' TEST**  
**ACADEMIC YEAR 2019- 20**

**CLASS: IX**

**MARKS-40**

**SOCIAL SCIENCE**

**(ANSWER KEY)**

**Each correct option carries one mark**

1. d. John Locke , 2. b .Taille , 3. b. Society and Institution of France before 1789. , 4. c.Waterloo
5. d. Olympe de Gouges , 6. c. A division of powers between three organs of the government.
7. c. Uttarakhand. , 8. c. Rajasthan , 9. b. 3.24 , 10. d. 2hrs , 11.d. Uttar Pradesh , 12. A .Russia
13. d. Brahmaputra , 14. d. Luni , 15. a. Black soil , 16. a. Lakshadweep ,
17. b. Peninsular plateau , 18. C. Chilika , 19.c. Shiwaliks , 20. c. Khadar ,
21. c. Cultivation of crops , 22. d. fixed and working capital , 23. c. Multiple cropping
24. b. Labour , 25. d . All of these , 26 .a. Seasonal and disguised unemployment
27. d. Elementary Education , 28. A. Market and Non-market activities , 29. c. Natural resources
30. d. All of these , 31. c. the rulers are elected by the people , 32 . d. One common religion
33. c. Dr. B.R. Ambedkar , 34. a. Sovereign , 35. d. All of the above ,
36. b. the Constitution of USA , 37. d . 26 January1950 , 38 . d. A Republic
39. a. Changes in the Constitution , 40 . d. equal respect for all religious beliefs and Practices.

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