

Danish Sir's Practice Papers

SSLC MCQ PRACTICE PAPER (July – 2021 Exam)

Sub: Maths, Science, Social (40 Marks Each)

Code no. 2106-32



Time: 2 Hour

Total Marks: 120

MATHEMATICS

2. If $x=a, y=b$ is the solution of the equations $x-y = 2$ and $x + y=4$, then the values of a and b are respectively.

- (a) 3 and 5 (b) 5 and 3
 (c) 3 and 1 (d) -1 and -3

3. If $A = 2\pi r^2$, then the value of r is

- (a) $\frac{\pm\sqrt{2\pi}}{A}$ (b) $\frac{\pm\sqrt{A}}{2\pi}$
 (c) $\frac{\pm\sqrt{2A}}{\pi}$ (d) $\frac{\pm\sqrt{\pi}}{2A}$

4. The distance between origin and the point $P(x_1, y_1)$ is

- (a) $\sqrt{x_1^2 + y_1^2}$ (b) $\sqrt{x_1^2 - y_1^2}$
 (c) $\sqrt{x_1^2 / y_1^2}$ (d) $\sqrt{x_1^2 \div y_1^2}$

5. For the following distribution.

Marks less than	10	20	30	40	50	60
no. of students	3	12	27	57	75	80

The modal class is :

- (a) 10-20 (b) 20-30
 (c) 30-40 (d) 50-60

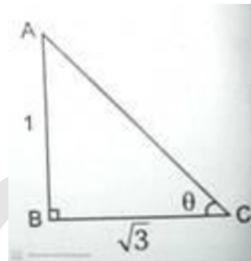
6. A solid has been melted and recast in to a wire , which of following remains the same

- (a) length (b) Height
 (c) radius (d) Volume

7. $9\sec^2 A - 9\tan^2 A =$

- (a) 1 (b) 9
 (c) 8 (d) 0

8. In the figure, the angle of elevation θ is



- (a) 30° (b) 45°
 (c) 90° (d) 60°

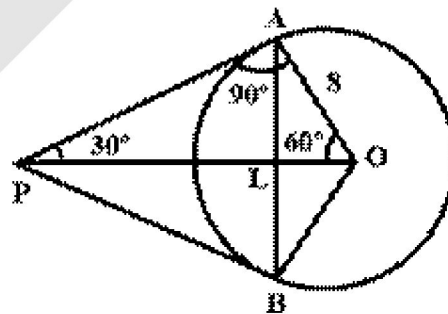
9. In an A.P. if $S_5=35$ and $S_4=22$, then the 5th term is

- (a) 10 (b) 13
 (c) 22 (d) 35

10. Sec A is same as

- (a) Sin A (b) $\frac{1}{\cos A}$
 (c) Cos A (d) $\frac{1}{\sin A}$

11. In the adjoining figure if $\angle A = 90^\circ$, then $\angle AOP$ is



- (a) 90° (b) 180°
 (c) 60° (d) 30°

12. If one root of $px^2+qx+r=0$ is reciprocal of the other root then

- (a) $p=q$ (b) $q=r$
 (c) $p=r$ (d) $p=q=r$



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13. The distance of the point p(3,4) from the x-axis is

- (a) 3 unit (b) 4 unit
(c) 7 unit (d) 1 unit

14. The number of solutions of the pair of linear equations $x+2y-8=0$ and $2x+4y=16$ have

- (a) 0 (b) 1
(c) Infinitely many (d) None

15. Find the value of $\sin 30^\circ + \cos 60^\circ$

- (a) 2 (b) 4
(c) 1 (d) 3

16. In $S = \frac{1}{2} at^2$ if $S=72, a=4$ then the value of 't' is

- (a) 8 (b) 6
(c) 5 (d) 7

17. The remainders obtained when a number is divided by 5 are

- (a) 0,1,2,3,4,5 (b) 0,1,2,3,4,
(c) 0,1,2,3, (d) 0,1,2,3,

18. The ratio of volume of a cone and a cylinder of equal diameter and equal height is

- (a) 3:1 (b) 1:3
(c) 1:2 (d) 2:1

19. Sum of first 'a' terms of an AP is 'n', then the common difference is

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

20. When the angle of elevation of sun is 30° the length of the shadow cast by 50 m high building is

- (a) $50\sqrt{3}$ m (b) $50\sqrt{3}$ m
(c) $25\sqrt{3}$ m (d) $300\sqrt{3}$ m

21. If the roots of the equation $12x^2 + mx + 5 = 0$ are in the ratio 3:2, m equals

- (a) $\frac{1}{12}$ (b) $\frac{5}{12}$
(c) $5\sqrt{10}$ (d) $\frac{5}{12}\sqrt{10}$

22. The value of $\cos 48^\circ - \sin 42^\circ$ is

- (a) 0 (b) $\frac{1}{4}$
(c) $\frac{1}{2}$ (d) 1

23. The maximum value of $\cos \theta$ could be

- (a) $2\sqrt{3}$ (b) $\sqrt{3}/2$
(c) (1,2) (d) $\sqrt{2}$

24. The mean and median of a data are 14 and 15 respectively. The value of mode is

- (a) 16 (b) 17
(c) 13 (d) 18

25. If the first term and the common differences of an A.P. are 6 and 5 respectively, find its 3rd term.

- (a) 12 (b) 22
(c) 36 (d) 16

26. The pair of linear equation $2x+3y-9=0$ and $4x+6y-18=0$ represents two lines which are

- (a) Interesting lines (b) Parallel lines
(c) Perpendicular to each other (d) Coinciding lines

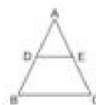
27. If the lines drawn to the linear equations of the type $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ are coincident on each other, correct relation among the following is

- (a) $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ (b) $\frac{a_1}{a_2} \neq \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$
(c) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ (d) $\frac{a_1}{a_2} \neq \frac{b_1}{b_2} = \frac{c_1}{c_2}$

28. If $l^2 = r^2 + h^2$ then the value of 'r' is equal to

- (a) $R = l^2 - h^2$ (b) $r^2 = \sqrt{l^2 + h^2}$
(c) $r^2 = \sqrt{l^2 - h^2}$ (d) $R = l-h$

29. In the figure $AB=12$ cms, $AD=7$ cms, $AC=18$ cms and $DE \parallel BC$ then the length of AE is



- (a) 10.5cms (b) 7.5cms
(c) 11.5cms (d) 12.5cms



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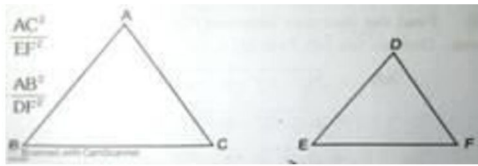
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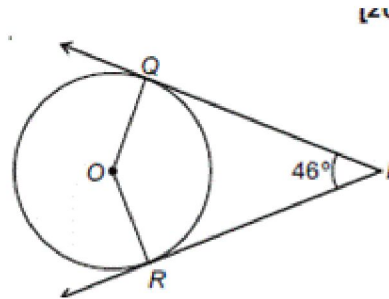
30. In this figure $\triangle ABC \sim \triangle DEF$. Then which one of the following ratios is correct?



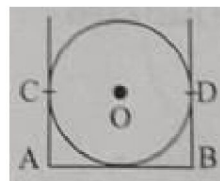
s

- (a) $\frac{\triangle ABC}{\triangle DEF} = \frac{AB^2}{EF^2}$
- (b) $\frac{\triangle ABC}{\triangle DEF} = \frac{AC^2}{EF^2}$
- (c) $\frac{\triangle ABC}{\triangle DEF} = \frac{BC^2}{EF^2}$
- (d) $\frac{\triangle ABC}{\triangle DEF} = \frac{AB^2}{DF^2}$
31. The pair of equations $2x+y=5, 3x+2y=8$ has
- (a) Unique solution (b) Two solutions
- (c) No solutions (d) Infinitely many solutions
32. If the angle between two radii of a circle is 140° , then the angle between the tangents at the ends of the radii is :
- (a) 90° (b) 50°
- (c) 70° (d) 60°
33. The ratio of the length of a pole and its shadows is $1 : \sqrt{3}$. The angle of elevation of the sun is :
- (a) 90° (b) 60°
- (c) 30° (d) 45°

34. In figure, PQ and PR two tangents to a circle QPR with centre O. If $\angle QOR = 46^\circ$, [2014



- (a) 67° (b) 134°
- (c) 44° (d) 46°
35. The distance between the point (4, 3) and the Origin is
- (a) 7 Units (b) 25 Units
- (c) 5 Units (d) 6 Units
36. The empirical relationship between the three measures of central tendency is,
- (a) $3 \text{ median} = \text{mode} + 2 \text{ mean}$ (b) $\text{median} = 4 \text{ mean}$
- (c) $3 \text{ median} = \text{mode} - 2 \text{ mean}$ (d) $\text{mean} = 2 \text{ median} + 3 \text{ mode}$
37. The co ordinates of a point on x- axis which lies on the perpendicular bisector of the line segment joining the points (7,6) and (-3,4) are
- (a) (0, 2) (b) (3, 0)
- (c) (0, 3) (d) (2, 0)
38. In the figure AB, AC and BD are the tangents as shown in the figure, If $AB = 'a'$ cms $BD = 'b'$ cms then $AC =$



- (a) 'a' cms (b) 'b' cms
- (c) (a-b) cms (d) (a+b) cms
39. The formula used to find the curved surface area of a cone of radius (r), height (h) and slant height (l) is
- (a) $CSA = \pi r l$ (b) $CSA = 2\pi(r + l)$
- (c) $CSA = 2\pi(r + h)$ (d) $CSA = \frac{\pi r^2 h}{4}$



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40. If a pole of height 6 m casts a shadow $2\sqrt{3} m$ long on the ground, then the sun's elevation is :
- (a) 30° (b) 60°
 (c) 45° (d) 90°

SCIENCE

1. In an experiment to study the properties of ethanoic acid, a student takes about 3 mL of ethanoic acid in a dry test tube. He adds an equal amount of distilled water to it and shakes the test tube well. After some time he is likely to observe that
- (a) a colloid is formed in the test tube (b) the ethanoic acid dissolves readily in water
 (c) the solution becomes light orange (d) water floats over the surface of ethanoic acid
2. Which of the following statements about the Modern Periodic Table is correct:
- (a) It has 18 horizontal rows known as Periods. (b) It has 7 vertical columns known as Periods.
 (c) It has 18 vertical columns known as Group s. (d) It has 7 horizontal rows known as Groups.
3. The plant part which exhibits negative geotropism is
- (a) Root (b) Stem
 (c) Branch (d) Leaves
4. An element common to all acids is
- (a) Oxygen (b) Hydrogen
 (c) Nitrogen (d) Carbon
5. The part of box-type solar cooker which is responsible for producing greenhouse effect is :
- (a) plane mirror reflector (b) black coating inside the box
 (c) glass sheet cover (d) utensils placed in the cooker box
6. The abbreviation IUCN stands for
- (a) International Union for Conservation of Nitrogen. (b) International Union for Conservation of Nature.
 (c) International Union for Conservation of Nature and Natural Resources. (d) International Union for Cryopreservation of Natural Resources.

7. Observe the following table

Joule i) potential difference

Coulomb ii) work done

Volt iii) electric charge

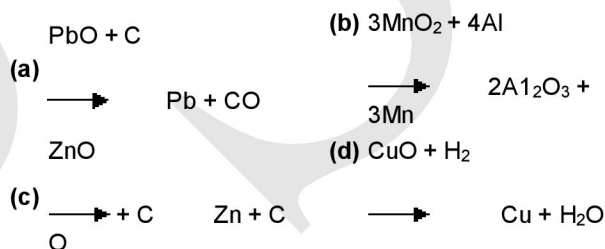
The correct arrangement is

- (a) a-iii, b-i, c-ii (b) a-ii, b-iii, c-i
 (c) a-i, b-ii, c-iii (d) a-iii, b-ii, c-i

8. The hormone which increases the fertility in males is called

- (a) Estrogen (b) Testosterone
 (c) Insulin (d) Progesterone

9. Reactive metals are good reducing agents. The most suitable example related to this is



10. Magnification produced by a mirror is + 1.5. The mirror is

- (a) concave (b) may be concave or convex
 (c) convex (d) none

11. The following gas is released when metals react with an acid

- (a) CO_2 (b) H_2
 (c) CO (d) CH_4



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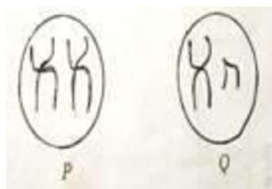
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12. Diagrams P and Q given below represent the gametes of human beings:



Among these, the sex of a child is determined by

- (a) Paired chromosomes of Q gamete
(b) Large chromosomes of P gamete
(c) Any one of the chromosomes of Q gamete
(d) Paired chromosomes of P gamete
13. A red brown gas is released on heating lead nitrate. It is an example of
(a) Combination reaction
(b) Oxidation reaction
(c) Decomposition Reaction
(d) Reduction reaction
14. The main fuel used in thermal power stations
(a) Radioactive material
(b) coal
(c) petroleum
(d) natural gas
15. A student obtained a sharp image of the grills of a window on a screen using a concave mirror. His teacher remarked that for getting better results a well lit distant object (preferably the Sun) should be focused on the screen. What should be done for this purpose?
[2012, 2013]
- (a) Move the screen and the mirror towards the object
(b) Move the screen and the mirror away from the object
(c) Move the screen slightly away from the mirror
(d) Move the mirror slightly towards the screen
16. By which action metal is obtained from metal oxide?
(a) Calcination
(b) Reduction
(c) Roasting
(d) Oxidation

17. The PH value of mouth is

(a) 5.0
(b) 5.5
(c) 5.3
(d) 5.1

18. Coliform is a group of

(a) bacteria
(b) wind plants
(c) wild animals
(d) diseases

19. Which of the following phenomena occur, when a small amount of acid is added to water?

(i) Ionisation
(ii) Neutralisation
(iii) Dilution
(iv) Salt formation

(a) a) (i) and (ii)
(b) b) (i) and (iii)
(c) c) (ii) and (iii)
(d) d) (ii) and (iv)

20. The direction of the force on a current - carrying wire placed in a magnetic field depends on

(a) the direction of the current but not on the direction of the field
(b) the direction of the field but not on the direction of the current
(c) the direction of the current as well as the direction of the field
(d) neither the direction of the current nor the direction of the field.

21. Dinosaurs were ancient reptiles and many of them had also characters of birds. From these fossils evidences, we conclude that

(a) Reptiles have evolved from birds.
(b) There exists no revolutionary relationship between reptiles and birds.
(c) Birds have evolved from reptiles.
(d) There is no evolutionary connection between reptiles and birds.

22. Which one of the following elements would lose an electron easily?

(a) Mg
(b) Na
(c) K
(d) Ca

23. A heat producing device should be used in an electric. This device should have

(a) High resistance and low melting point
(b) low resistance and high melting point
(c) High resistance and high melting point
(d) Low resistance and low melting point



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24. The part of box-type solar cooker which is responsible for producing greenhouse effect is :
- (a) plane mirror reflector (b) black coating inside the box
(c) glass sheet cover (d) utensils placed in the cooker box
25. Hydrogen gas is not liberated when a metal reacts with concentrated nitric acid because nitric acid
- (a) Does not contain hydrogen atoms (b) Oxidizes itself
(c) Oxidizes hydrogen to form water (d) Is a strong reducing agent and gains hydrogen
26. On moving from left to right in a period in the periodic table, the size of the atom.
- (a) Increases (b) Decreases
(c) Does not change appreciably (d) First decreases and then increases.
27. While preparing soap a small quantity of common salt is generally added to the reaction mixture of vegetable oil and sodium hydroxide. Which one of the following may be the purpose of adding common salt?
- (a) To reduce the basic nature of the soap (b) To make the soap neutral
(c) To enhance the cleaning power of the soap (d) To favour the precipitation of the soap
28. An example of homologous organs is
- (a) Our arm and dog's forelegs (b) Our teeth and elephants' tusks
(c) Potato and runners of grass (d) All of the above
29. The image formed by a concave mirror is observed to be virtual, erect and larger than the object. Where should be the position of the object?
- (a) Between the principal focus and the Centre of curvature (b) At the Centre of curvature
(c) Beyond the Centre of curvature (d) Between the pole of the mirror and its principal focus
30. Nutrients are translocated in plants through -
- (a) Xylem tracheids (b) Phloem sieve tubes
(c) Xylem vessels (d) Phloem companion cells.
31. The least distance of distinct vision for a young adult with normal vision is about
- (a) 25cm (b) 2.5cm
(c) 25cm (d) 2.5m
32. Which of the following statements is incorrect regarding magnetic field lines?
- (a) The direction of magnetic field at a point is taken to be the direction in which the north pole of a magnetic compass needle points (b) Magnetic field lines are closed curves.
(c) If magnetic field lines are parallel and equidistant, they represent zero field strength. (d) Relative strength of magnetic field is shown by the degree of closeness of the field lines.
33. The direction of the force on a current-carrying wire placed in a magnetic field depends
- (a) on the direction of the current but not on the direction of the field (b) on the direction of the field but not on the direction of the current
(c) on the direction of the current as well as the direction of the field (d) neither the direction of the current nor the direction of the field.
34. Part of the flower that develops into fruit and part of the seed that develop into root respectively are
- (a) Ovary and plumule (b) Plumule and radicle
(c) Ovary and radicle (d) Ovary and ovule
35. In emergency situation, blood pressure is controlled by
- (a) Adrenaline (b) Prolactin
(c) Thyroxine (d) Gonadotrophins.
36. Electricity from the ocean can be generated based on utilizing.
- (a) Kinetic energy of the waves but not stored thermal energy. (b) Stored thermal energy but not kinetic energy of the wind.
(c) Kinetic energy of the waves as well as stored thermal energy. (d) Neither kinetic energy of the waves nor stored thermal energy.



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37. A student was asked to observe and identify the various parts of an embryo of a red kidney bean seed. He identified the parts and listed them as under :

I. Tegmen

II. Testa

III. Cotyledon

IV. Radicle

V. Plumule [2015]

The correctly identified parts among these are :

- (a) I, II and III (b) II, III and IV
(c) III, IV and V (d) I, III, IV and V

38. Which of the following is not a plant hormone

- (a) Auxin (b) Gibberins
(c) Thyroxin (d) Cytokinins

39. Which one of the following is renewable resource?

- (a) Wildlife (b) Coal
(c) Natural gas (d) Petroleum.

40. An example of abiotic component is

- (a) Plants (b) soil
(c) microorganisms (d) animals

SOCIAL STUDIES

1. _____ is known as the Iron Man of India.

- (a) Bhagath Singh (b) Chandrashekar Azad
(c) Abdul Kalam Azad (d) Sardar Vallabhbhai Patel

2. China is following the very popular religion

- (a) Jainism (b) Hinduism
(c) Buddhism (d) Christianity

3. The upper Krishna project is constructed across the river

- (a) kaveri (b) Krishna
(c) kosi (d) Mahanadi

4. Protection of children from Sexual Offences Act is brought into effect on

- (a) June 19, 2012 (b) July 19, 2016
(c) July 31, 1948 (d) June 19, 2016

5. Quantitative Credit control Measure the following is the

- (a) Change in lending margins (b) Bank rate policy
(c) Moral suasion (d) Direct action

6. The word Banco is derived from

- (a) Italian (b) French
(c) Greek (d) Latin

7. The Indian textiles could not be sold in England due to

- (a) Heavy tariffs (b) Lack of transportation
(c) Heavy export (d) Poor quality

8. According to 2011 Census women literacy rate is _____.

- (a) 65.46% (b) 82.14%
(c) 75% (d) 74%

9. India and china signed Panchaheela principles in

- (a) 1962 (b) 1971
(c) 1948 (d) 1954

10. The summer rainfall in Kerala is called as

- (a) Kalabaisakhi (b) Mango showers
(c) Coffee blossoms (d) Andhis

11. 6- 14 years children should get free and compulsory education and the article .

- (a) 24 (b) 40
(c) 30 (d) 21A

12. The First World War came to an end with the treaty of

- (a) Versailles (b) Paris
(c) Geneva (d) Tashkent

13. India belongs to

- (a) Underdeveloped country (b) Developed country
(c) Developing country (d) Backward country

14. The soil known as deposited soil is

- (a) Black (b) Red
(c) Alluvial (d) Laterite



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15. The word wagh means
 (a) Lion (b) Tiger
 (c) Brave (d) Courage
16. The famous declaration 'back to Vedas' is given by
 (a) Dayananda saraswathi (b) Raja ram mohan roy
 (c) M. G.Ranade (d) Athmarama panduranga
17. The largest producer of rice in India is
 (a) Andhra Pradesh (b) Punjab
 (c) West Bengal (d) Karnataka
18. An example for direct tax is.
 (a) Value added tax (b) Central exercise duty
 (c) Stamp duty (d) Service tax
19. A person has bought a car of worth Rs.15 lakhs is now facing some problems in it, but the car company is not responding to him. To which agency can the person complain?
 (a) District Consumer Forum (b) The State Consumer Commission
 (c) The National Consumer Commission (d) Inter-State Consumer Forum
20. The sikh people signed a humiliating Lahore agreement in _____
 (a) 1818 (b) 1846
 (c) 1848 (d) 1857
21. Jawahar Lal Nehru outlined Indian foreign policy on
 (a) September 7, 1946 (b) September 7, 1948
 (c) December 25, 1946 (d) December 25, 1948
22. The act that became the cause for JallianWallahBhagh massacre
 (a) Factory act (b) Rowlat act
 (c) Press act (d) Arms act
23. Scrub forests and grassland are found in annual rainfall is .
 (a) 10-50cm (b) 100-200cm
 (c) 60-100cm (d) 200-250cm
24. Maratha paper was published by _____.
 (a) Jawaharlal Nehru (b) Rasbihari Bose
 (c) Balagangadhar Tilak (d) V.D.Savarkar
25. The article gave permission to the establishment of minority educational institution .
 (a) Article 21A (b) Article 17
 (c) Article 29 (d) Article 30
26. The women and child development department started to provide
 (a) Shelter (b) Health
 (c) Education (d) Food
27. The director of Balaji Tele films
 Azim (b) Ekta Kapoor
 (a) Premji
 (c) Narayan Murthy (d) Naresh Goyal
28. The Legislation comprising of four rights such as Citizen safety, Information, Appeal and remedy was adopted by.
 (a) UK President (b) Indian President
 (c) US President (d) Indian Prime Minister
29. According to Karl Marx division of labour leads to
 (a) Skilled workers (b) Less skilled workers
 (c) More skilled workers (d) Only workers
30. The highest peak in the eastern ghats is
 (a) Anamudi (b) K²
 (c) Guru shikhar (d) Armarkonda
31. The labour achieves social control through class, status and stratification is
 (a) Child Labour (b) Economic Labour
 (c) Social Labour (d) Division of Labour
32. Bengaluru International Air port is called _____
33. Chipko movement took place in the year _____.
34. _____ apposed against the Mangalore Refineries and petro chemical Ltd.
35. The first world war ended in _____.
36. The World Health Organization was founded in the year _____
37. India's first president was _____.
38. The first modern paper mill set up in 1932 at _____
39. A fuel substance of plant origin is _____
40. In India _____ occur very often in hilly states.

