

Danish Sir's Practice Papers

SSLC MCQ PRACTICE PAPER (July – 2021 Exam)

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

Code no. 2106-34



Time: 2 Hour

Total Marks: 120

MATHEMATICS

2. The value of k for which the pair of linear equations $4x + 6y - 1 = 0$ and $2x + ky - 7 = 0$ represents parallel lines is

- (a) $K=3$ (b) $K=2$
 (c) $K=4$ (d) $K= -2$

3. The equation whose roots are $3 + 2\sqrt{5}$ and $3 - 2\sqrt{5}$ is

- (a) $x^2 + 6x + 11 = 0$ (b) $x^2 - 6x + 11 = 0$
 (c) $x^2 - 6x - 11 = 0$ (d) $x^2 - x + 11 = 0$

4. According to Cartesian system, the point of intersection of two axes is called

- (a) x-axis (b) co-ordinates co
 (c) Origin (d) y-axis

5. If mode = 80 and mean = 110 then the median is :

- (a) 110 (b) 120
 (c) 100 (d) 90

6. A solid piece of iron is in the form of a cuboids of a dimensions 10cm x 5cm x 2cm. Find its volume

- (a) 10cm^3 (b) 1000cm^3
 (c) 100cm^3 (d) 1cm^3

7. $\sin 2A = 2 \sin A$ is true when $A =$

- (a) 0° (b) 30°
 (c) 45° (d) 60°

8. If the area of a circle is equal to sum of the areas of two circles of diameters 10 cm and 24 cm, then the diameter of the larger circle (in cm) is [2012]

- (a) 34 (b) 26
 (c) 17 (d) 14

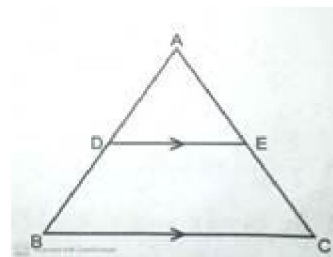
9. In an A.P. $T_{n+5} = 35$ and $T_{n+1} = 23$, then common difference is

- (a) 2 (b) $2n$
 (c) $3n$ (d) 3

10. If $\sin \theta = \frac{3}{5}$ and $\theta = \frac{4}{5}$ find the value of $\sin^2 \theta + \cos^2 \theta$

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

11. In this figure $DE \parallel BC$, then $\frac{AD}{BD}$ is equal to



- (a) $\frac{AD}{AE}$ (b) $\frac{AE}{CE}$
 (c) $\frac{AD}{BC}$ (d) $\frac{BC}{AD}$

12. Which of the following is a quadratic equation

- (a) $X+3=0$ (b) $x^2 + y^2 = 0$
 (c) $M(2m+3)=7$ (d) $2a-3b=8$

13. If the angles between the two tangents to a circles is 40° then the angle between the radii is

- (a) 90° (b) 100°
 (c) 140° (d) 180°

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



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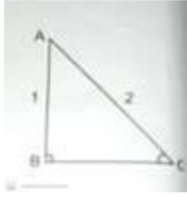
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15. In the figure the value of $\sin C$ is



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

16. The equation whose roots are 3 and -3 is

- (a) $x^2 - 6x + 9 = 0$ (b) $x^2 + 6x + 9 = 0$
 (c) $x^2 - 9 = 0$ (d) $x^2 - 9x + 9 = 0$

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. 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

19. 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

20. When the angle of elevation of sun is 300 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. If $\sin a=1/2$,then the value of $\cot A=$

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

23. $\frac{2 \tan 30^\circ}{1 + \tan^2 30^\circ} =$

- (a) $\sin 60^\circ$ (b) $\cos 60^\circ$
 (c) $\tan 60^\circ$ (d) $\sin 30^\circ$

24. The times, in seconds, taken by 150 athletes to run a 110 m hurdle race are

Class frequency	13.8-14	14-14.2	14.2-14.4	14.4-14.6	14.6-14.8	14.8-15
	2	4	5	71	48	20

- (a) 11 (b) 71
 (c) 82 (d) 130

25. The common difference of AP

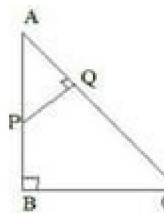
$\frac{1}{3q}, \frac{1-6q}{3q}, \frac{1-12q}{3q}, \dots$ is

- (a) q (b) -q
 (c) -2 (d) 2

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. In the figure $\sin \theta = \frac{AQ}{AB}$



- (a) $\frac{BC}{PQ}$ (b) $\frac{AC}{PQ}$
 (c) $\frac{QP}{BC}$ (d) $\frac{AP}{AB}$

28. The roots of an equation are +5 and -5.Then the equation is

- (a) Adfected E (b) Linear equation
 (c) pure Q.E (d) Simple Linear equation

29. The measured that a right angled triangle can have with respect to sides is

- (a) 1,2,3 (b) 3,4,5
 (c) 3,6,8 (d) 4,5,7

30. The Maximum number of tangents that can be drawn to a circle from an external point

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

31. If a pair of linear equations $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ represents coincident lines, then, correct relation among the following is,

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

32. If the altitude of the sun is 60° , the height of a tower which casts a shadow of length 30 m is

- (a) $30\sqrt{3}$ m (b) $\frac{30}{3}\sqrt{3}$ m
(c) $15\sqrt{3}$ m (d) 15 m

33. The measure of angle of elevation of top of tower 75 $\sqrt{3}$ high from a point at a distance of 75 m from foot of tower in a horizontal plane is

- (a) 30° (b) 60°
(c) 90° (d) 45°

34. The pair of linear equations $2x + 5y = k$, $kx + 15y = 18$ has infinitely many solutions if the value of k is.

- (a) $k = 3$ (b) $k = 6$
(c) $k = 9$ (d) $k = 18$

35. If the points A(x, 2), B(-3, -4) and C(7, -5) are collinear, then the value of x is [2014]

- (a) -63 (b) 63
(c) 60 (d) -60

36. If the radius of the base of a right circular cylinder is halved, keeping the height same, then the ratio of the volume of the cylinder thus obtained to the volume of original cylinder is

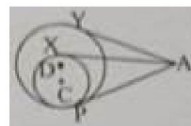
[2012]

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

37. If the distance b/w the points. $(a \cos \theta + b \sin \theta, 0)$ and $(0, \sin \theta - b \cos \theta)$ is

- (a) $a^2 + b^2$ (b) $a + b$
(c) $a^2 - b^2$ (d) $\sqrt{a^2 + b^2}$

38. In the figure AP, AX and AY are the tangent then AY is equal to



- (a) AD (b) AC
(c) AX (d) CD

39. Two dice are thrown together. The probability of getting the same number on both dice is [2012]

- (a) $\frac{1}{2}$ (b) $\frac{1}{3}$
(c) $\frac{1}{6}$ (d) $\frac{1}{12}$

40. If sun's elevation is 60° then a pole of height 6 m will cast a shadow of length .

- (a) $6\sqrt{3}$ m (b) $\sqrt{3}$ m
(c) $2\sqrt{3}$ m (d) $3\sqrt{2}$ m

SCIENCE

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

- (a) $\text{PbO} + \text{C} \longrightarrow \text{Pb} + \text{CO}$ (b) $3\text{MnO}_2 + 4\text{Al} \longrightarrow 2\text{Al}_2\text{O}_3 + 3\text{Mn}$
(c) $\text{ZnO} + \text{C} \longrightarrow \text{Zn} + \text{CO}$ (d) $\text{CuO} + \text{H}_2 \longrightarrow \text{Cu} + \text{H}_2\text{O}$

2. Among the elements ${}^2\text{He}^4$, ${}^7\text{N}^{14}$, ${}^{12}\text{Mg}^{24}$ and ${}^4\text{Be}^8$, the elements which belong to the same period in the modern periodic table are

- (a) ${}^2\text{He}^4$ and ${}^4\text{Be}^8$ (b) ${}^7\text{N}^{14}$ and ${}^4\text{Be}^8$
(c) ${}^{12}\text{Mg}^{24}$ and ${}^2\text{He}^4$ (d) ${}^4\text{Be}^8$ and ${}^{12}\text{Mg}^{24}$

3. Observe the following table

Reverse the direction of electric current i) Galvanometer

Safety device ii) Commentator

Detects the presence of electric current iii) Fuse

The correct arrangement is

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

4. The name of Conservation of Forests Movement started in a remote village named Reni in Gharwal of Himalaya is

- (a) Bedthi Andolan (b) Chipko Andolan
(c) Narmada Bachav (d) Western ghats Save
o Andolan

5. The process in which sulphide ore is converted to oxide in the presence of excess air and high temperature

- (a) Roasting (b) Calcination
(c) Electrolytic refining (d) Electroplating

6. If one hydrogen atom of propane is replaced by a ketone group, then the molecular formula of the compound obtained is

- (a) C_4H_8O (b) C_3H_8O
(c) C_3H_6O (d) $C_4H_{10}O$

7. Hydrogen gas is not liberated when a metal react with concentrated nitric acid because nitric acid

- (a) Does not contain h (b) Oxidizes itself
(a) ydrogen atoms
(c) Oxidizes hydrogen (d) Is a strong reducing agent
(c) to form water and gain hydrogen

8. .Seat of consciousness in our brain is.

- (a) Pons (b) Cerebellum
(c) Medulla (d) Cerebrum

9. After observing the prepared slides of binary

fission in Amoeba and budding in yeast, the

following observations were reported

a. Single cells of Amoeba and Yeast were

undergoing binary fission and budding

respectively.

b. Cytokinesis was observed in the Yeast cell.

c. Elongated nucleus was dividing to form two

daughter nuclei in Amoeba.

d. A chain of buds were observed due to

reproduction in Amoeba.

The correct observation(s) is/are

- (a) d, a and c (b) c and d
(c) b only (d) a and c

10. Where should be the object kept before a convex lens to obtain virtual, erect and larger image.

- (a) Between 2F and F (b) At 2F
(c) At F (d) Between F and O

11. To find the focal length of a concave mirror, Sita

should choose which one of the following :

[2011]

- (a) A mirror holder and sc (b) A screen holder and a
reen holder scale
(c) A mirror holder, a scre (d) A screen, a mirror,
en holder and a scale holders for them and a
scale

12. Diabetes is caused due to the deficiency of

- (a) insulin (b) thyroxin
(c) Adrenalin (d) Auxin

13. If water contains more H^+ ions than OH^- ions, then the water is

- (a) Neutral (b) acidic
(c) Basic (d) None of these

14. The change in focal length of an eye is caused by the action of the

- (a) pupil (b) retina
(c) ciliary muscles (d) iris

15. The function of the electric generator is, it

- (a) Reverses the direction of current (b) Converts electrical energy into mechanical energy
(c) Detects the presence of electric current in the circuit (d) Converts mechanical energy into electrical energy

16. The atomic number of an element is 19. In the periodic table, this element belongs to the period

- (a) 4 (b) 3
(c) 5 (d) 6

17. A response that does not happen in plants due to their growth is

- (a) Bending of shoot towards light (b) Penetration of roots in deep soil
(c) Folding of leaves when touched (d) Climbing tendrils of a creeper

18. Genetic drift operates only on

- (a) Smaller populations (b) Larger populations
(c) Mendelian populations (d) Island populations.

19. What percentage of sunlight is used by plants to convert it into food energy?

- (a) 10 % (b) 100 %
(c) 1% (d) 50 %

20. The following table shows four elements P, Q, R and S along with their electronic configuration. The elements which belong to the same period are

Elements	P	Q	R	S
Electronic Configuration	2,8,2	2,6	2,8,8,1	2,8,6

- (a) Elements P and S (b) Elements P and R
(c) Elements R and S (d) Elements Q and S

21. Which of the following salts does not contain water of crystallization?

- (a) Blue vitriol (b) Baking soda
(c) Washing soda (d) Gypsum

22. A pathogen that causes AIDS and warts transmitted through sexual contact

- (a) Protozoa (b) Bacteria
(c) Virus (d) Fungus

23. Which of the following not a sexually transmitted disease

- (a) Gonorrhoea (b) Syphilis
(c) Goiter (d) AIDS

24. Which factor is mainly responsible for increase in demand of natural

- (a) Scientific advancement (b) resources Use of biodegradable chemicals
(c) Increased human population (d) Environmental pollution.

25. A doctor advised a person to take an injection of insulin because

- (a) His blood pressure was low (b) His heart beat was beating slowly
(c) He was suffering from goiter (d) His sugar level in blood was high

26. When metal reacts with Nitric acid, Hydrogen gas is not released because,

- (a) Nitric acid is a strong oxidizer (b) It Oxidises the Hydrogen released to form water
(c) It reduces itself to nitrogen (d) All the above

27. Magnification produced by a plane mirror is:

- (a) less than one (b) greater than one
(c) zero (d) equal to one

28. The ultimate source of energy stored in fossil fuels is

- (a) moon (b) earth
(c) sun (d) sea

29. The aviation fuel which is used in the engines of jet aeroplanes is:

- (a) diesel (b) kerosene
(c) petrol (d) CNG

30. Which of the following provides satisfactory explanation of biogenetic law ?

- (a) Homologous organs (b) Similarity among early embryos of vertebrates.
(c) Vestigial organs (d) Analogous organs.

31. Which of the following is more reactive?

- (a) Mercury (b) aluminium
(c) silver (d) calcium

32. Alkalis are
- (a) Acids, which are soluble in water (b) Salts, which are soluble in water
(c) Bases, which are soluble in water (d) All of these
33. 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
34. An a.c. generator converts
- (a) Electrical energy into mechanical energy (b) Generates energy
(c) Mechanical energy into electrical energy (d) None
35. The electronic configuration of element X is 2,8,8,1 and the electronic configuration of element Y is 2, 8, 7. Then the type of bond formed between these two elements is
- (a) Covalent bond (b) Hydrogen bond
(c) Metallic bond (d) Ionic bond
36. Which of the following is growth promoter hormone in plants?
- (a) Auxin (b) Abscisic acid
(c) Cytokinin (d) Auxin and cytokinin
37. The first scientist to find out magnetic field will produce electric current is,
- (a) Isaac Newton (b) J C Bose
(c) Albert Einstein (d) Michael Faraday
38. The process of obtaining food in amoeba is known as:
- (a) Dialysis (b) Cytokinesis
(c) Phagocytosis (d) Amoebiasis
39. Function of lymph is
- (a) transports carbon dioxide (b) transports oxygen
(c) transports waste materials (d) carries digested and absorbed fat from intestine
40. The PH value of mouth is
- (a) 5.0 (b) 5.5
(c) 5.3 (d) 5.1

SOCIAL STUDIES

1. Which is not a temple movement from the following .
- (a) Young Bengal movement (b) Vaikom movement
(c) Aligarh movement (d) Shuddi movement

2. The greatest achievement of the World Health organization is
- (a) Elimination of plague (b) Elimination of malaria
(c) Elimination of cholera (d) Elimination of smallpox
3. Child labour is fostered by
- (a) Unorganised labour sector (b) Organised labour sector
(c) Unpaid labour sector (d) Paid labour sector
4. The summer rainfall in Kerala is called as
- (a) Kalabaisakhi (b) Mango showers
(c) Coffee blossoms (d) Andhis
5. HDI is constructed by
- (a) UNO (b) FAO
(c) UNDP (d) UNESCO
6. The article gave permission to the establishment of minority educational institution .
- (a) Article 21A (b) Article 17
(c) Article 29 (d) Article 30
7. Desert vegetation are found in annual rain fall is .
- (a) 100-200cm (b) 60-100cm
(c) 200-250cm (d) 10-50cm
8. The war broke out between India and china due to the escalation of Tibetan crisis in
- (a) 1971 (b) 1948
(c) 1999 (d) 1962
9. Women's commissions have been established to address
- (a) Various problems of women (b) Women education
(c) Women's health (d) Women development department
10. Invisible hungers refer to
- (a) nutrition (b) malnutrition
(c) Hunger in rich people (d) Balanced diet
11. One of the features of unorganized sector is
- (a) labour (b) Migration
(c) wages (d) Without pay labour

12. The founder of Jet airways
- (a) Naresh Goyal (b) Azim Premji
(c) Narayan Murthy (d) Ekta Kapoor
13. The article which advocates international peace and co – operation
- (a) Article 17 (b) Article 21
(c) Article 51 (d) Article 24
14. Muslim League was founded in _____
- (a) 1924 (b) 1922
(c) 1929 (d) 1906
15. Fazal Ali Commission was formed
- (a) For the linguistic formation of states To mediate the Jammu Kashmir issue with Pakistan
(b) In order to integrate the province into Indian union.
(c) To sort out the integral differences between the states
(d) To sort out the integral differences between the states
16. I am the soil which is useful for the growth of plantation crops like tea, coffee and fruits and I am rich in humus. Where do you find me?
- (a) Chotanagpur and Meghlaya plateau
(b) Deccan basalt trap region
(c) Spread extensively in Tamil Nadu
(d) On the slopes mountains and hills covered by forest
17. The mountains which are also called as Himadri
- (a) The greater Himalayas (b) The lesser Himalayas
(c) Deccan plateau (d) Siwaliks
18. Swaraj party was founded in the year _____
- (a) 1924 (b) 1922
(c) 1929 (d) 1906
19. Bhaskara is planning to buy a car in future. how would he save his money through bank.
- (a) Recurring deposit account (b) Fixed deposit account
(c) Savings bank account (d) Current account
20. Nelson Mandela was called African Gandhi because
- (a) He fought against caste system (b) He fought for the freedom to south Africa
(c) He fought against corruption (d) He fought against racial discrimination
21. The largest producer of rice in the world is
- (a) India (b) Japan
(c) China (d) Malaysia
22. The first independence war took place in
- (a) 1914 (b) 1947
(c) 1957 (d) 1939
23. The first enter the subsidiary alliance in India.
- (a) Birar (b) Poona
(c) Awadh (d) Hyderabad
24. The Hirakud dam is constructed across the river
- (a) Kaveri (b) Krishna
(c) Mahanadi (d) Kosi
25. 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
26. **CHIPKO movement took place in**
- (a) Uttarakhand (b) Uttar Pradesh
(c) Madhya Pradesh (d) Karnataka
27. The first Anglo Mysore war was ended by the treaty of
- (a) Madras (b) Mangalore
(c) Srirangapatana (d) Salbai
28. Raja Ram Mohan Roy started a periodical called
- (a) Mangaluru samachara (b) Samvada kaumudi
(c) Young Bengal (d) Young India
29. The century is called as the century of political problems
- (a) 18th (b) 19th
(c) 16th (d) 17th
30. The Indian textiles could not be sold in England due to
- (a) Heavy tariffs (b) Lack of transportation
(c) Heavy export (d) Poor quality
31. The value of the total production of goods and service of a country during a year is
- (a) State Income (b) National Income
(c) State and National Income (d) Per capita Income
32. 6- 14 years children should get free and compulsory education and the article .
- (a) 24 (b) 40
(c) 30 (d) 21A
33. The Paper industry is a ___ based industry.
34. Mussolini was the founder of _____ party .

35. Coastal erosion is mostly caused by _____ action.
36. Dr.Shivaram Karanth opposed the establishment of _____ nuclear power plant.
37. The most important ferro –alloy metal is _____
38. _____ was responsible to appose to set up kaiga nuclear plant in costal Karnataka .
39. The hesdquarters of SAARC is at _____.
40. Mumbai port is called as _____