Danish Sir's Practice Papers

SSLC MCQ PRACTICE PAPER (July - 2021 Exam)

Sub: Maths, Science, Social (40 Marks Each)
Code no. 2106-29



Total Marks: 120

Time: 2 Hour

MATHEMATICS

- 2. 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
- 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
- 4. 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
- The number of solid spheres, each of diameter
 cm that can be made by melting a solid metal
 cylinder of height 45 cm and diameter 4 cm is
 [2014
 - (a) 3

(b) 5

(c) 4

(d) 6

A box contains 90 discs, numbered from 1 to 90.
 If one disc is drawn at random from the box, the

probability that it bears a prime-number less

than 23, is [2013]

- (a) $\frac{7}{90}$
- (b) $\frac{10}{90}$
- (c) $\frac{4}{45}$
- (d) 9
- A number is selected at random from the numbers 1 to 30. The probability that it is a

prime number. [2014]

- (a) $\frac{2}{3}$
- (b) $\frac{1}{6}$
- (c) $\frac{1}{3}$
- (d) $\frac{11}{30}$
- 8. If $\sin \emptyset = \frac{3}{5}$ and $\emptyset = \frac{4}{5}$, find the value of $\sin^2 \emptyset + \cos^2 \emptyset$

Ø

(a) 4

(b) 2

(c) 3

- (d) 1
- 9. Sec A is same as
- (a) Sin A
- (b) $\frac{1}{\cos A}$
- (c) Cos A
- $\frac{1}{\sin A}$
- 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



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- 11. 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,
- A straight line which passes through two points on a circle is
 - (a) A chord
- (b) A secant
- (c) A tangent
- (d) The radius
- 13. If the common difference of an A.P. is -6 then $a_{16}-a_{12}$ is
 - (a) 24

(b) 42

(c) 30

- (d) -24
- 14. 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
- 15. In the Equation ax2+bx+c=0,if b2-4ac>0 then the roots of the equation are
 - (a) Imaginary
- (b) Real and equal
- (c) real and unequal
- (d) None of the above
- A cone is mounted on a hemisphere of radius 'r' cm and height 'h' cm,then the volume of solid is
 - (a) $[4/3\pi r^3 + 1/3\pi r^2 h] cm^3$
- (b) $[1/3\pi r^3 + \pi r^2 h] \text{ cm}^3$
- (c) $[4/3\pi r^3 + 2/3\pi r^2 h] cm^3$
- (d) $[2/3\pi r^3 + 1/3\pi r^2 h] cm^3$
- 17. X+2y-4=0 and 2x+4y-12=0 then the lines are
 - (a) Cooincide
- (b) Parallel
- (c) Intersect
- (d) None of these
- 18. 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
- 19. In a progression, If . $T_n = 2^{n2+1}$, then s_2 is
 - (a) 3

(b) 9

(c) 12

- (d) 11
- 20. Which of the following is false in A.P.

$$T_{n+1} = T_n$$

(a)

+d

(c)
$$A = \frac{a+b}{2}$$

$$d = \frac{T_n + a}{n - 1}$$

21. In the figure AB=12cms, AD=7cms,AC=18cms and DE $_{\mbox{\scriptsize II}}$ BC then the length of AE is



- (a) 10.5cms
- (b) 7.5cms
- (c) 11.5cms
- (d) 12.5cms
- 22. The areas of similar triangles are proportional to
 - (a) Corresponding si des
- (b) Square root of corresponding sides
- (c) Square of corres ponding sides
- (d) Cubes root of corresponding sides
- Perimeter of a square is 40cm then the length of diagonal is
 - (b) $10\sqrt{2}$

(a) 100cms

Cms

 $5\sqrt{2}$

(d) 5cms

(c)

Cms

- 24. 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
- 25. The pair of linear equations 8x -5y=7and 5x-8y= -7 have
 - (a) One solution
- (b) Two solution
- (c) No solution
- (d) Many solution
- 26. 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
- 27. If the point p (x, y) is equidistant from A(5,1) and B (-1,5), then
 - (a) 5x-y

(b) X=5y

(c) 3x = -2y

- (d) 3x=2y
- 28. The sum and $2k^2 = 3k$ respectively are
 - (a) $\frac{3}{2}$ and 0

- (b) 0 and <u>15</u>
- c) $\frac{-15}{2}$ and 0
- (d) 0 and <u>3</u>





- 29. The graph of $y = {}_{x}2$ and y = 6 x gives the roots of the equation
 - (a) $x^2 6 x = 0$
- (b) $x^2 x + 6 = 0$

 - (c) $x^2 + x 6 = 0$ (d) $x^2 2x 6 = 0$
- 30. The square of a number is added to the three times of the number, the sum is 28. This statement can be represented as
 - (a) $x^2 3x 28 = 0$ (b) $x^2 3x + 28 = 0$
- - (c) $x^2 + 3x = 28$ (d) $x^2 + 3x + 28 = 0$
- 31. An equation that can be expressed in the form of a $x^2 + c = 0$ where 'a' and 'c' are real numbers is called.
 - (a) Adfected quadratic equation
- (b) Pure quadratic equation
- (c) Linear equation
- (d) Bio- quadratic equation
- 32. $(1+\tan \varnothing +\sec \varnothing)(1+\cot \varnothing -\csc \varnothing) =$
 - (a) 0

(b) 1

- (c) 2
- (d) -1
- 33. (secA+tanA)(1-sin A)=
 - (a) Sec A

(b) Sin A

(c) Cosec A

(d) Cos A

- 34. $11tan^2A =$ 1+cot2 A
 - (a) sec² A

(b) -1

(c) cot² A

- (d) tan² A
- 35. 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 I a horizontal plane is
 - (a) 30°

(b) 60°

(c) 90°

- (d) 45°
- 36. If the altitude of the sum is 600, 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

- 37. The length of the string of a kite flying at 100 mts above the ground with the elevation of 60° is:
 - (a) 100 m

- (b) 100 $\sqrt{2} m$
- (c) $\frac{200}{\sqrt{3}} m$
- (d) 200 m
- 38. The angle of depression from the top of a tower 12 m high, at a point on the ground is 30°. The distance of the point from the top of the tower is:
 - (a) 12 m

(b) 6 m

(c) $12\sqrt{3} m$

- (d) 24 m
- 39. The times, in seconds, taken by 150 athletes to run a 110 m hurdle race are

Class fresquenc	13. 8 -	14- 14.	14. 2 –	14. 4 –	14. 6 –	14.8 - 15	
у	14	2	14. 4	14. 6	14. 8		
	2	4	5	71	48	20	

- (a) 11
- (b) 71
- (c) 82
- (d) 130
- 40. The draw a pair of tangents to a circle which are inclined to each other at an angle of 60°, it is required to draw tangents at end points of those two radii of the circle. What should be the angle between them?

SCIENCE

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

(b) 3MnO₂ + 4AI

2A12O3 + 3Mn

ZnO

(d) CuO + H₂

Cu + H₂O

- The two elements for which Mendeleev left blank places in his original periodic table were
 - (a) Si, Ti
- (b) Ga, Ge
- (c) Al, Ga
- (d) As, Sb
- 3. Which of the following pairs of two vegetables

represent the correct homologous structures?

- (a) Sweet potato and potat
- (b) Sweet potato and tomato
- (c) Carrot and potato
- (d) Radish and carrot





4.	Excess addition of which	n aqueous solution turns red litmus solution blue. xcess addition of which of the llowing solutions would reverse the change		
	(a) Baking powder	(b) Lime		
	(c) Ammonium hydroxide	e solutio (d) Hydrochloric aci d		
5.	Water shed manageme	ent		
	(a) increases drought s and floods	(b) increases the production and income of the watershed community		
	decreases the bio diversity of the do wnstream reservo irs	(d) increases deforestation.		
6.	When the speed of the	coil of generator is increased		
	The induced emf de	(b) The induced emf		
	(a) creases but frequen cy increases	increases but frequency decreased		
	The induced emf inc	(d) The induced emf		
	(c) reases and the freq uency increases	decreases and the frequency decreases		
7.	Wings of an insect and organs?	a bird are example of which		
	(a) Homologous	(b) Analogous		
	(c) Vestigial	(d) analytic		
8.	The splitting up of white passing through a glas	e light into seven colours on s prism is called		
	(a) Refraction	(b) Deflection		
	(c) Dispersion	(d) scattering		
9.	A prism splity up a bea colours because	nm of white light into seven Is different colour		
	(a) Amplitude (c) Enery	(b) Speed (d) none		
10	Which of the following amount of acid is adde	phenomena occur, when a small		
	(i) Ionisation			
	(ii) Neutralisation			
	(iii) Dilution			

11. 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 distance object (preferably the Sun) should be focused on the screen. What should be done for this purpose?

[2012, 2013

Move the screen and the mirror towards the

(b) Move the screen and the mirror away from

a)

(c)

object

Move the screen sligh
tly away from the

(d) Move the mirror slightly towards the screen

the object

mirror

12. Iron nails were dipped in an aqueous solution of copper sulphate. After about 30 minutes, it was observed that the colour of the solution changed from

(a) Colorless to light green

(b) Blue to light green

(c) Blue to colourless

(d) Green to blue

 The group of organisms that reproduce through fission only is

(a) Amoeba, Hydra, sp yrogyra

(b) Leishmania, Ameoba, veast

(c) Ameoba, Plasmodiu

(d) Plasmodium, Ameoba, leishmania

14. The inner lining of stomach is protected by one of the following from hydrochloric acid. Choose the correct one

(a) Pepsin

(b) Mucus

(c) Salivary amylase

(d) Bile.



(iv) Salt formation

(a) a) (i) and (ii)

(c) c) (ii) and (iii)

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(b) b) (i) and (iii)

(d) d) (ii) and (iv)

15. Which of the following statements does not apply to elements belonging to the same period

the periodic table?

The number of valenc e electrons increases

(a) e electrons increases on moving from left to right.

(b) The atomic size increases from left to right.

The atomic size goes (c) on decreasing from le

(c) on decreasing from I ft to right.

- (d) The metallic character of elements decreases from left to right
- 16. Which of the following characters can be acquired but not inherited?
 - (a) body weight

(b) body colour

(c) eye colour

- (d) all of these.
- 17. Which of the following is the correct sequence of events of sexual reproduction in flowers?

(a) Pollination, fertilizatio n, seedling, embryo.

- (b) Seedling, embryo, fertilization, pollination.
- (c) Pollination, fertilizatio n, embryo, seedling.
- (d) Embryo, seedling, pollination, fertilization
- 18. Hydrogen gas is not liberated when a metal react with concentrated nitric acid because nitric acid
 - (a) Does not contain h ydrogen atoms
- (b) Oxidizes itself
- (c) Oxidizes hydrogen to form water
- (d) Is a strong reducing agent and gain hydrogen
- 19. Coliform is a group of
 - (a) bacteria

(b) wind plants

(c) wild animals

- (d) diseases
- 20. The PH value of mouth is
 - (a) 5.0

(b) 5.5

(c) 5.3

- (d) 5.1
- 21. Spinal cord originate from
 - (a) Cerebrum

(b) Medulla

(c) Pons

- (d) Cerebellum
- 22. The number of pair(s) of sex chromosomes in a human diploid cell is
 - (a) one

(b) two

(c) three

(d) four.

- 23. A ray of light travelling in water falls at right angles to the boundary of a parallel-sided glass block. The ray of light:
 - (a) is refracted towards the e normal
- (b) is refracted away from the normal
- (c) is refracted away from the normal
- (d) is reflected along the same path.
- According to Mendeleev's Periodic law, the elements were arranged in the periodic table in the order of
 - (a) Increasing atomic nu mber
- (b) Decreasing atomic number
- (c) Increasing atomic mas
- (d) Decreasing atomic masses
- 25. An example of abiotic component is

(a) Plants

(b) soil

(c) microorganisms

- (d) animals
- 26. Which type of lens is needed to rectify the problem of myopia?
 - (a) Biconvex lens
- (b) biconcave lens
- (c) Concave lens
- (d) Plano-convex lens
- 27. If one hydrogen atom of propane is replaced by a ketone group, than the molecular formula of the compound obtained is
 - (a) C₄H₈0

(b) C₃H₈O

(c) C₃H₆O

- (d) C₄H₁₀O
- 28. Which of the following will give displacement reactions?
 - (a) NaCl solution and c opper metal

(b) MgCl2 solution and aluminium metal

(c) FeSO4 solution and silver metal

(d) AgNO3 solution and copper metal.

29. The colours of aqueous solutions of CuSO

4

and

FeSO

4

as observed in the laboratory are :

- (a) Pale green and light blue respectively
- **(b)** Light blue and dark green respectively
- (c) Dark blue and dark g reen respectively (d) Dark blue and pale green respectively





30.	Part of the flower that dev	velops into fruit and part of the ot respectively are		
	(a) Ovary and plumule (c) Ovary and radicle	(b) Plumule and radicle (d) Ovary and ovule		
31.	The functional group pres	sent in ethanol is		
	(a)CO (c)CHO	(b)OH (d)COOH		
32.	A heat producing device should be used in an electric. This device should have			
	(a) High resistance and I ow melting point	(b) low resistance and high melting point		
	(c) High resistance and high melting point	(d) Low resistance and low melting point		
33.	Advanced sunrise and de the basis of	elayed sunset are explained on		
((a) Dispersion of light	(b) Scaterring of light		
	(c) White colour of cloud	(d) Atmospheric refraction		
34.	Which gas is harnessed f	rom bio-mass?		
	(a) LPG	(b) CNG		
((c) ethane	(d) methane		
35.	What happens when a so a solution of a base in a t	olution of an acid is mixed with est tube?		
	a)The temperature of the	solution increases		
	(b) The temperature of th temperature of the solution formation takes place	e solution decreases (c) The on remains same (d) Salt		
	temperature of the solution			
	temperature of the solution formation takes place	on remains same (d) Salt		
	temperature of the solution formation takes place (a) (a) only (c) (b) and (c) The most important safet	on remains same (d) Salt (b) (a) & (c)		
36.	temperature of the solution formation takes place (a) (a) only (c) (b) and (c) The most important safet	(b) (a) & (c) (d) (a) and (d) y method used for protecting		
36.	temperature of the solution formation takes place (a) (a) only (c) (b) and (c) The most important safet home appliances from ships (a) Earthing	(b) (a) & (c) (d) (a) and (d) y method used for protecting ort circuiting or overloading is (b) Use of fuse (d) Use of electric meter		
36.	temperature of the solution formation takes place (a) (a) only (c) (b) and (c) The most important safet home appliances from ships (a) Earthing (c) Use of sterilizer	(b) (a) & (c) (d) (a) and (d) y method used for protecting ort circuiting or overloading is (b) Use of fuse (d) Use of electric meter		
36. 37.	temperature of the solution formation takes place (a) (a) only (c) (b) and (c) The most important safet home appliances from ship (a) Earthing (c) Use of sterilizer An element common to a	(b) (a) & (c) (d) (a) and (d) y method used for protecting ort circuiting or overloading is (b) Use of fuse (d) Use of electric meter Il acids is		
36. 37.	temperature of the solution formation takes place (a) (a) only (c) (b) and (c) The most important safet home appliances from ship (a) Earthing (c) Use of sterilizer An element common to a (a) Oxygen	(b) (a) & (c) (d) (a) and (d) y method used for protecting for circuiting or overloading is (b) Use of fuse (d) Use of electric meter Il acids is (b) Hydrogen		
36. 37.	temperature of the solution formation takes place (a) (a) only (c) (b) and (c) The most important safet home appliances from ship (a) Earthing (c) Use of sterilizer An element common to a (a) Oxygen	(b) (a) & (c) (d) (a) and (d) y method used for protecting for circuiting or overloading is (b) Use of fuse (d) Use of electric meter Il acids is (b) Hydrogen		

- 38. In which of the following chemical equations, the abbreviations represent the correct states of the reactions and products involved at reaction temperature?
 - (a) $^{2H2}_{O(g)}$ (l) + O2(l) >>> 2H2
- (b) 2H2 + 02 >>>> 2H2O (g)
- (c) $_{O(I)}^{2H2(g)+0(g)} >>> 2H2$
- (d) 2H2 + O2 >>> 2H2O (l)
- 39. The non renewable form of energy among these is
 - (a) Solar energy
- (b) Wind energy
- (c) Nuclear energy
- (d) Ocean thermal energy
- 40. Which of the following endocrine glands is unpaired?
 - (a) Adrenal

(b) Testes

(c) Pituitary

(d) Ovary

SOCIAL STUDIES

- The central Government created Andhra Pradesha in 1952 when
 - (a) Potti sriramulu fa st until death
- (b) Nizam imported weapons to fight
- (c) Sardarpatel launc hed police action
- (d) Rajakarssuppressed the accessionists
- 2. 'Glasnost and Perestroika' are the names of the
 - (a) Communist parties of the USSR
- (b) Socialist Movements of the USSR
- (c) Reformations of the USSR
- (d) Political policies of the USSR
- 3. The central bank of India is
- (a) SBI
- (b) SBM
- (c) ICICI
- (d) RBI
- The fouder of Indian national congress is ____
 - (a) Mahatma Gandhi
- (b) A.O.Hume
- (c) Balagangadhar Tilak
- (d) Gopalakrishna Gokhale
- 5. _____ is know as the Iron Man of India.
 - (a) Bhagath Singh
- (b) Chandrashekar Azad
- (c) Abdul Kalam Azad
- (d) Sardar Vallabhabai Patel
- 6. The Eastern slopes of western Ghats do not receive rain as much as western slopes because they
 - (a) Lie in southern part
- **(b)** Lie in rain shadow region
- (c) Receive more snowfa
- (d) Have thick forests





7. The summer rainfall in Karnataka is called as	17. The type of vegetation found in the desert forests is
(a) Kalabaisakhi (b) Mango showers (c) Coffee blossoms (d) Andhis	(a) Tall glass (b) Throny shrubs (c) Trees with conical flow (d) Trees with wide
3. The major function of the consumer council is	leaves
Producing goods and (b) Ensuring quality goods (a) services at lower pric and services	18. Which one of the following forests refer to the stilt like roots?
е	(a) Evergreen forests (b) Monsoon Forests
Providing all the goo (d) Distributing through public distribution system	(c) Mangroove forest (d) Mountain Forests
or step	19. The chairman of Wipro Technologies .
9. Rice crops requires annual rainfall of	Azim (b) Ekta kapoor
(a) 100-200cm (b) 10-50cm	Premji
(c) 60-70cm (d) 80-90 cm	(c) Varghese kurein (d) Narayan Murthy
10. The highest peak in India is	20. The First Carnatic War was fought between
(a) Anamudi (b) K² (c) Guru shikhar (d) Armakonda	(a) Nawab Anwaruddin (b) The French and the and the English English
11. According to census of 2011, the poverty rate of India is	(c) Duplex and the Niza (d) The English and the Nizamof Hyderabad
(a) 21.9% (b) 22%	21. The value of the total production of goods and service of
(c) 29% (d) 50%	a country during a year is
(6) /6	(a) State Income (b) National Income
12. The U.N.O as the World organization came into existence on	(c) State and National Income (d) Per capita Income
(a) 24 th October 1946 (b) 26 th October 1945	22. Headquarters of food and Agriculture Organisation is at
(c) 25 th October 1946 (d) 24 th October 1945	(a) Rome (b) New Delhi
	(c) New york (d) Geneva
 The Legislation comprising of four rights such as Citizen safety, Information, Appeal and remedy was adopted 	23. Red soil is covered in an area of
by.	(a) 5.2 lakh (b) 5.46 lakh
(a) UK President (b) Indian President	(c) 15 lakh (d) 2.85 lakh
(c) US President (d) Indian Prime Minister	24. Halgali rebels were basically
14. The kosi project is constructed across the river	(a) Farmers (b) Carpenters
(a) mahanadi (b) sutlej	(c) Bedas (d) Black smiths
(c) Rihand (d) kosi	(a) Diagnosimale
	25. The rihand dam is constructed across the river
15. An assembly of the following upholds struggle for human rights?	(a) kosi (b) mahanadi
(a) Mob (b) riot	(c) rihand (d) Damodar
(c) propaganda (d) Public opinion	26. Nelson Mandela was called African Gandhi because
16. According to karl merx division of labour leads to	(a) He fought against (b) He fought for the freedom to south Africa
(a) Skilled workers (b) Less skilled workers	(a) He fought against (d) He fought against racial
(c) More skilled workers (d) Only workers	corruption (a) reaging against radial



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27. The actual burden the government treasury				
(a) Revenue deficit (c) Primary deficit	(b) Fiscal deficit(d) Tax deficit			
28. Which article upholds welfare of the state g	the social justice and people overnment .			
(a) Article39 (c) Article30	(b) Article29 (d) Article17			
29. The subsidiary Alliand	ce was introduced by			
(a) Lord dalhousie (c) Lord wellesley	(b) Lord canning(d) Lord William bentinck			
30. Jindal Vijayangar Stre	Il Ltd. Is located in state.			
31. The second world war	started in			
32. Women movement me	eans			
33. World trade Organizat	ion was founded on			
34. The first railway line in	India was laid between and			
35. In India occur ve	ry after in hilly states.			
36. A fuel substance of pla	ant origin is			
	7. The law protecting children from sexual crimes was implemented in the year			
38. The SAARC was foun	ded in the year			
39. The British governmen	nt last governor general was			
40started \$ Tamil Nadu .	Self importance movements in			



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