Danish Sir's Practice Papers

SSLC MCQ PRACTICE PAPER (July - 2021 Exam)

Sub: Maths, Science, Social (40 Marks Each)
Code no. 2106-27



Time: 2 Hour

MATHEMATICS

1. In the figure AB=12cms, AD=7cms,AC=18cms and DE $_{||}$ BC then the length of AE is



- (a) 10.5cms
- (b) 7.5cms
- (c) 11.5cms
- (d) 12.5cms
- 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
- 3. If $A=2\pi r^2$, then the value of f is
 - (a) $\pm \frac{\sqrt{2\pi}}{4}$
- (b) $\pm \frac{\sqrt{A}}{2\pi}$
- (c) $\pm \frac{\sqrt{2A}}{2}$
- (d) $\pm \frac{\sqrt{\pi}}{24}$
- 4. The ratio in which (4,5) divides the join of (2,3) and (7,8) is
 - (a) 7: 2

(b) -8:3

(c) 3:2

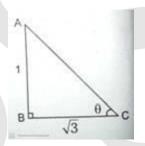
- (d) 2:3
- 5. For the following distribution.

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

The modal class is:

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

- Total Marks: 120
- 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 \emptyset is



- (a) 30 a
- (b) 45 a
- (c) 90°
- (d) 60 a
- 9. In an A.P. if $S_5=35$ and $S_4=22$, then the 5^{th} term is
 - (a) 10

(b) 13

(c) 22

- (d) 35
- 10. Sec A is same as
 - (a) Sin A
- (b) 1
- (c) Cos A
- (d) $\frac{1}{\sin A}$
- 11. If sum of three terms of A.P. is 21 then the middle term is
 - (a) 3

(b) 7

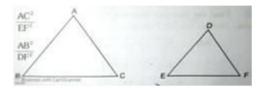
(c) 11

- (d) 10
- 12. If one root of px²+qx+r=0 is reciprocal of the other root then
 - (a) p=q
- (b) q = r
- (c) p = r
- (d) p=q=r





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



S



(b) $\Delta ABC = \Delta DEF$

(a)
$$\frac{AB^2}{EF^2}$$

 $\frac{AC^2}{EF^2}$

$$\frac{\Delta ABC}{\Delta DEF} =$$

(d) $\Delta ABC = \Delta DEF$

$$\frac{BC^2}{EF^2}$$

 $\frac{AB^2}{DF^2}$

- 14. 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) 3and 5
- (b) 5and 3
- (c) 3and 1
- (d) -1 and -3
- 15. Find the value of sin 30 + cos 60
 - (a) 2

(b) 4

(c) 1

- (d) 3
- 16. $\ln S = \frac{1}{2} at^2 if S = 72,a=4$ 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.
- 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
- 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 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. The value of a cos 48 - sin 42 is
 - (a) 0

(b) $\frac{1}{4}$

(c) $\frac{1}{2}$

- (d) 1
- 23. The maximum value of $\cos \theta$ could be
 - (a) 2/√3

(b) √3/2

(c) (1,2)

- (d) √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 equations 2x+y=5,3x+2y=8 has
 - (a) Unique solution
- (b) Two solutions
- (c) No solutions
- (d) Infinitely many solutions
- 27. Which one of the following is correct?



- (a) ${}^{A}C^{2} {}^{A}B^{2} = {}^{B}C^{2}$
 - (b) $A_{B^2} B_{C^2} = A_{C^2}$
- (c) ${}^{A}C^{2} + {}^{A}B^{2} = {}^{B}C^{2}$
- (d) AB+BC=AC



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

(a)
$$R = l^2 - h^2$$

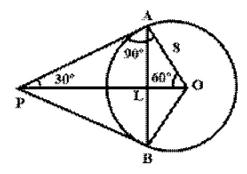
(b)
$$r^2 = \sqrt{l^2 + h^2}$$

(c)
$$r^2 = \sqrt{l^2 - h^2}$$

(d)
$$R = I-h$$

29.

In he adjoining figure if o,then < AOP is

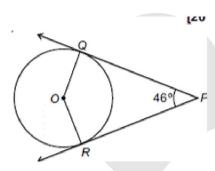


- (a) 90°
- (b) 180°
- $(c) 60^{\circ}$
- (d) 30°

30. In figure, PQ and PR two tangents to a circle

QPR with centre O. If QOR equals: = 46°,

[2014



- (a) 67°
- (b) 134°
- $(c) 44^{\circ}$
- (d) 46°

31. If the lines drawn to the linear equations of the type a₁ x $+ b_1 y + c_1 = 0$ and $a_2 x + b_2 y + c_2 = 0$ are coincident on each other, correct relation among the following is

(a)
$$\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$$

(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) $\frac{a_1}{a_2} \neq \frac{b_1}{b_2} = \frac{c_1}{c_2}$

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

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 of the sun is :
 - (a) 90°

(b) 60°

(c) 30°

(d) 45°

34. 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

35. The distance between origin and the point $P(x_1y_1)$ is

(a)
$$\sqrt{x_1^2 + y_1^2}$$

(b)
$$\sqrt{x^2_1 - y^2_1}$$

(c)
$$\sqrt{x_1^2 / y_1^2}$$

(a)
$$\sqrt{x^2_1 + y^2_1}$$
 (b) $\sqrt{x^2_1 - y^2_1}$ (c) $\sqrt{x^2_1 / y^2_1}$ (d) $\sqrt{x^2_1 \div y^2_1}$

36. The empirical relationship between the three measures of central tendency is,

- (a) 3 median = mode + 2 mean
- (b) median = 4 mean
- (c) 3 median = mode 2 mean
- (d) mean = 2 median +3

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. The distance between the point (4, 3) and the Origin is

- (a) 7 Units
- (b) 25 Units
- (c) 5 Units
- (d) 6 Units

39. The formula used to find the curved surface area of a cone of radius (r), height (h) and slant height (1) is

- (a) $CSA = \pi rl$
- (b) CSA = $2\pi(r+1)$
- (c) $CSA = 2\pi(r+h)$ (d) $CSA = \frac{\pi r^2 h}{4}$

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°

 $(c) 45^{\circ}$

(d) 90°

SCIENCE



- In a locality, hard water, required for an experiment, is not available. However, the following salts are available in the school laboratory
 - (a) Sodium sulphate
- (b) Calcium sulphate
- (c) Magnesium chloride
- (d) Calcium chloride

Sodium chloride

Potassium sulphate

- 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 Groups.
- (d) It has 7 horizontal rows known as Groups.
- 3. Emasculation process in plants involves
 - (a) removal of anthers of flowers well before maturity of gynoecium of flowers.
- (b) removal of gynoecium of flowers well before the maturity of anthers of flowers.
- (c) removal of anther and gynoecium of flowers simultaneously before the maturity of flowers.
- (d) neither of these.
- 4. An element common to all acids is
- (a) Oxygen
- (b) Hydrogen
- (c) Nitrogen
- (d) Carbon
- 5. An example of abiotic component is
- (a) Plants
- (b) soil
- (c) microorganisms
- (d) animals
- 6. Which one of the following is renewable resource?
 - (a) Wildlife
- (b) Coal
- (c) Natural gas
- (d) Petroleum.
- A student sitting on the last bench in the class cannot read the writing on the blackboard clearly but be can read the book lying on his desk clearly Which of the following statement in

about the student

- (a) the near point of his eyes has receded away
- (b) the near point of his eyes has come closer to him
- (c) The far point of his eyes has receded away
- (d) The far point of his eyes has come closer to him

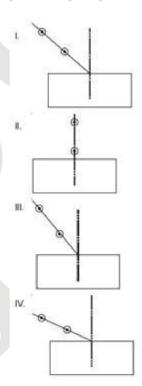
- 8. We can see the sun before the actual sunrise by about :
 - (a) 5 minutes
- (b) 2 minutes
- (c) 2 hours
- (d) 20 minutes
- The following gas is released when metals reacts with an acid
 - (a) CO₂

(b) H₂

(c) CO

- (d) CH₄
- 10. Select from the following the best set-up for

tracing the path of a ray of light through a rectangular glass slab: [2013]



(a) I

(b) II

(c) III

- (d) IV
- Observe the following chemical equations andidentify the correct statement.
 - (i) CuSO,+ Fe FeSO4 + Cu
 - (ii) 2AgNO3 + Cu Cu(NO3)2 + 2Ag
 - (a) (a) Copper is more reactive than Iron and Silver.
 - (c) (c) Copper is more reactive than Silver but less than Iron.
- **(b)** (b) Iron is less reactive than Copper and Silver.
- (d) (d) Silver is more reactive than Copper and Iron.





12.	Which of the following is not a part of the female
	reproductive system in human beings

(a) Ovary

(b) Uterus

(c) Vas deferens

(d) Fallopian tube

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 distance 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 (b) Move the screen and the mirror away from

object

the object

(c) Move the screen slightly away from the (d) Move the mirror slightly towards the screen

mirror

16. Which of the following will give displacement reactions?

(a) NaCl solution and copper metal

(b) MgCl2 solution and aluminium metal

(c) FeSO4 solution and silver metal

(d) AgNO3 solution and copper metal.

17. The pH of the gastric juices released during

(a) a) less than 7

(b) is b) more than 7

(c) digestion c)equal to 7

(d) d) equal to 0

18. 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,

19. Which of the following substance will not give carbon dioxide on treatment with dilute acid?

(a) a) Marble

(b) b) Limestone

(c) c) Baking soda

(d) d) Lime

20. Which of the plants shows positively geotropic movement?

(a) Leaf

(b) root

(c) stem

(d) flower

21. 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.

22. The refractive index of water with respect to air is 4/3. The refractive index of air with respect

to water will be:

(a) 1.75

(b) 0.50

(c) 0.75

(d) 0.25

Refraction of light in the eye occurs at

(a) The lens only

(b) The cornea only

(c) Both the cornea and the lens

(d) The pupil

24. 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.

25. The PH value of mouth is

(a) 5.0

(b) 5.5

(c) 5.3

(d) 5.1

94482 26652







- 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.
- 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. The correct statement related to digestion in small intestine is
 - (a) Acidic food is made alkaline by bile juice
- **(b)** Food is made acidic by hydrochloric acid
- (c) Starch is digested due to the action of amylase
- (d) Protein is digested due to the action of pepsin
- 29. Which of the following lenses would you prefer to use while reading small letters found in a dictionary?
 - (a) A convex lens of focal length 15cm
- (b) A concave lens of focal length 50cm
- (c) A convex lens of focal length 5 cm
- (d) A convex lens of focal length 5cm
- 30. Nutrients are translocated in plants through -
 - (a) Xylem tracheids
- (b) Phloem sieve tubes
- (c) Xylem vessels
- (d) Phloem companion cells.
- 31. The size of the pupil is controlled by which of these?
 - (a) Retina
- (b) Ciliary muscles
- (c) iris
- (d) cornea
- 32. Spinal cord originate from
 - (a) Cerebrum
- (b) Medulla
- (c) Pons
- (d) Cerebellum
- 33. 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-l, c-ii
- (b) a-ii, b-l, c-iii
- (c) a-ii, b-iii, c-i
- (d) a-iii, b-ii, c-i

- 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. 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 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.
- The group of organisms that reproduce through fission only is
 - (a) Amoeba, Hydra, spyrogyra
- (b) Leishmania, Ameoba, yeast
- (c) Ameoba, Plasmodiu, Planaria
- (d) Plasmodium, Ameoba, leishmania
- 38. Which of the following is not a plant harmone
 - (a) Auxin
- (b) Gibberins
- (c) Thyroxin
- (d) Cytokinins
- 39. 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
- 40. The direction of the force on a current carrying wire placed in a magnetic field depend
 - (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.

SOCIAL STUDIES

- 1. India and china signed Panchaheela principles in
 - (a) 1962
- (b) 1971
- (c) 1948
- (d) 1954



b-fet CRESCENT ITI (GOVT.AIDED) $^{\mathsf{Fees}\ \mathsf{Rs.}\ \mathsf{2,400/ ext{-}}}$ only for Govt. Quota Seats

5, Near Metro Piller 58, Ilyasnagar, Sarakki Gate, Kanakapura Main Road, Bangalore-560 078. Jigani Link Road, Near SFO, KIADB, Bommasandra, 4th Phase, Bangalore-560 099.

Ph: 92424 84476 94482 26652



. Jawahar Lal Nehru outlined Indian foreign policy on (a) September 7, 1946 (b) September 7, 1948		The upper Krishna project is constructed across the river					
	d) December 25,1948		ı) kaveri :) kosi	(b) Krishna (d) Mahanadi			
3. The soil known as deposited soil is			14. The summer rainfall in Kerala is called as				
(a) Black (b) Red		10	A Kalabaja akhi	(b) Mona	o obovero		
(c) Alluvial (d) Laterite) Kalabaisakhi) Coffee blossoms	(b) Mang (d) Andh	o showers is		
I. The help line provided to prevent child marriage is			15. The word wagh means				
	1098						
	1909	/) Lion) Brave	(b) Tiger(d) Courage			
5. An example for direct tax is.		16.	The famous declaration	n 'back to Veda	s ' is given by		
(a) /value added tax (b) Cen	-						
(c) Stamp duty (d) Service tax			a) Dayananda saraswa c) M. G.Ranade		ram mohan roy arama panduranga		
A person has bought a car of facing some problems in it, responding to him. To which complain?	but the car company is not		Scrub forests and gras	sland are found	d in annual rainfall		
•		(a	ı) 10-50cm	(b) 100-20	00cm		
(a) District Consumer Forum	(b) The State Consumer Commission	(c	e) 60-100cm	(d) 200-25	50cm		
(c) The National Consumer Commission	(d) Inter-State Consumer Forum	18.	The largest producer o	of rice in India is			
		(a) Andhra Pradesh	(b) F	Punjab		
 As per suggestion of swam Wodeyar Xstarted schools for the started school for the started sch		(c) West Bengal	(d) k	Carnataka		
(a) Touchables	(b) Brahmins	19.	India belongs to				
(c) Christians	(d) Untouchables	(a) Underdeveloped cou	ntry (b) De	veloped country		
Phakra Nangal project cons	truoted comes the river	(с	c) Developing country	(d) Ba	ckward country		
Bhakra-Nangal project cons		20	The sikh people sighne	ed a humiliating	Lahore		
	krishna		agreement in	_	Lanore		
(c) kaveri (d)	Kosi	(a	ı) 1818	(b) 1846			
9. The Indian textiles could no	t be sold in England due to		:) 1848	(d) 1857			
		•	•	. ,			
	(a) Heavy tariffs (b) Lack of transportation (c) Heavy export (d) Poor quality			 The women and child development department started to provide 			
10. The highest peak in the eas	tern ghats is	(a) Shelter	(b)	Health		
(a) Anamudi	(b) K ²	(c	c) Education	(d)	Food		
(c) Guru shikhar	(d) Armakonda						
(b) Gara Shikhar	(a) / imakonda	22.	Maratha paper was pu	blished by	 .		
The article gave permission to the establishment of minority educational institution .		-	i) Jawaharlal Nehrru i) Balagangadhar Tilak		sbihari Bose D.Savarkar		
(a) Article 21A (b) Article17		23. India gets annual rainfall during rainy season is					
(c) Article29	(d) Article30) 10%	(b) 2%			
12. India and china established the BRICS in			75%	(d) 13%			
(a) 2015	(b) 2016						
(c) 1985	(d) 1963						
	'			4.			





24. Nana sahib's commander was		37. United Nation Organization was founded on
(a) Man singh	(b) Wajid ali	38. The first world war ended in
(c) Tatya tope	(d) Nana phadnavis	39. In India occur very after in hilly states.
 The Legislation comprising of four rights such as Citizen safety, Information, Appeal and remedy was adopted by. 		40. Bengaluru International Air port is called
(a) UK Preside	nt (b) Indian President	
(c) US Preside	nt (d) Indian Prime Minister	
26. The following	government given 50 % reservation in	
local body ele	ections to women	
(a) Andhra prad	desh (b) Orissa	
(c) Sikkim	(d) Karnataka	
27. The director of	of Balaji Tele films	
Azim	(b) Ekta kapoor	
(a)		
Premji (c) Narayan Mu	urthy (d) Naresh Goyal	
28. Quantitative 0	Credit control Measure the following is the	
(a) Change in le	ending margins (b) Bank rate policy	
(c) Moral suass	sion (d) Direct action	
29. The First Wor	rld War came to an end with the treaty of	
(a) Versailles	(b) Paris	
(c) Geneva	(d) Tashkent	
30. The labour ac	chieves social control through class, status tion is	
(a) Child Labou	ur (b) Economic Labour	
(c) Social Labo	our (d) Division of Labour	Y
31. Protection of brought into e	children from Sexual Offences Act is effect on	
(a) June 19, 20	012 (b) July 19, 2016	
(c) July 31, 194	48 (d) June 19, 2016	
32. 6- 14 years of education and	hildren should get free and compulsory d the article .	
(a) 24	(b) 40	
(c) 30	(d) 21A	
33. The first mode	ern paper mill set up in 19332 at	
34. Chipko moven	nent took place in the year	
35. A fuel substance of plant origin is		
36. The World Health Organist ion was founded in the year		
		•



