Danish Sir's Practice Papers

SSLC MCQ PRACTICE PAPER (July – 2021 Exam)

Sub: Maths, Science, Social (40 Marks Each) Code no. 2106-21



Time: 2 Hour

MATHEMATICS

1. If 1 is a root of the equations $ay^2 + ay + 3 = 0$ and

 $y^2 + y + b = 0$, then ab equals

[2012]

(a) 3

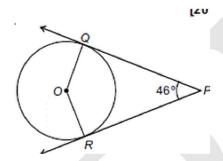
b)
$$-\frac{7}{2}$$

(c) 6

2. 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°
- (d) 46°
- 3. 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 $\sin \emptyset = \frac{3}{5}$ and $\emptyset = \frac{4}{5}$, find the value of $\sin^2 \emptyset + \cos \theta$
 - (a) 4

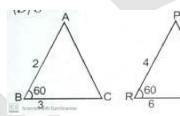
(b) 2

(c) 3

(d) 1

- Total Marks: 120
- A solid piece of iron is in the form of a cuboids of a dimensions 10cm x 5cm x 2cm. Find its volume
 - (a) 10cm³
- **(b)** 1000cm³
- (c) 100cm³
- (d) 1cm³
- 6. The point (0, 3) lies on
- (a) | Quadrant
- (b) II Quadrant
- (c) x-axis
- (d) y-axis
- 7. In an A. P. If a=3. 5, d=0, n=101, then a will be
 - (a) 0

- **(b)** 3.5
- (c) 104.5
- (d) 103
- 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
- 9. The two triangles are similar according to



- (a) RHS criterion
- (b) SAS criterion
- (c) AAA criterion
- (d) AA criterion
- 10. 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)
$$\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$$

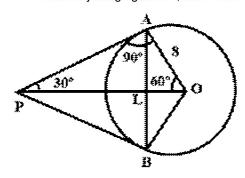
(b)
$$\frac{a_1}{a_2} \neq \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$$

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

Jigani Link Road, Near SFO, KIADB, Bommasandra, 4th Phase, Bangalore-560 099.

11. In he adjoining figure if o,then < AOP is



- (a) 90°
- (b) 180°
- (c) 60°
- (d) 30°
- 12. If sin a+1/2, then the value of cot A=
 - (a) 1/√3

(b) √3

(c) √3/2

- (d) 1
- 13. The surface area of a sphere is 616cm² its radius is
 - (a) 7cm

(b) 14cm

(c) 21cm

- (d) 28cm
- 14. If the angles between the two tangents to a circles is 40then the angle between the radii is
 - (a) 90 a

(b) 100 a

(c) 140 a

- (d) 180 a
- 15. 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
- Which one of the following sequence is both A.P. and G.P.
 - (a) 1,2,3,4____
- (b) 2,4,8,16,32,____
- (c) X,x,x,x,____
- (d) $\frac{x}{2}, \frac{x}{4}, \frac{x}{6}, \dots$
- 17. If The Last Term of an A.P. is 119 and the 8th term from the end is 91,the common difference of the A.P. is
 - (a) 2

(b) 4

(c) 3

(d) -3

 PQR is a triangle XYIIQR cutting PQ and PR produced at 'X' and 'Y'. If PQ= 4cms,PX=7.2cms, PR=3.5cms,then PY is



- (a) 5.4cms
- (b) 5.6cms
- (c) 5.7cms
- (d) 6.3cms
- 19. In figure ABCD is a trapezium. ABI CD which of the following is equal to \underline{AB}

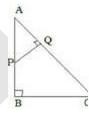


OB

(b) AO AB

(c) BC

- (d) <u>AD</u> BC
- 20. In the figure 0 , then = $\frac{AQ}{AB}$



BC

(b) A

(a) \overline{PQ}

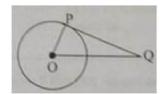
Ρς (d) *ΑΕ*

(c) $\frac{QP}{BC}$

- (d) $\frac{AP}{AB}$
- 21. The pair of linear equations -5x +2y=8and 2x-5y-3=0 have
 - (a) No solution
- (b) One solution
- (c) Two solution
- (d) Many solution
- 22. The pair of linear equations 8x -5y=7and 5x-8y= -7 have
 - (a) One solution
- (b) Two solution
- (c) No solution
- (d) Many solution



- 23. The Pair of equations 6x 3y + 10 = 0, 2x y + 9 = 0. have
 - (a) One solution
- (b) Two solution
- (c) Many solution
- (d) No solution
- 24. In the figure PQ is tangent to the circle with 'O' If Angle POQ= half of 60⁰ then ∟P and Q ∟ respectively are



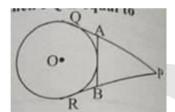
(a) 100°,50°

(b) 30°,60° (d) 90°.

(c) $90^{0},30^{0}$

- 60°
- 25. In the figure PQ , PR and

AB are tangents. If the perimeter of an equilateral triangle PAB id 15cms then PQ is equal to



(a) 15cms

(b) 10cms

- (c) 7.5cms
- (d) 5cms
- 26. The point on the x- axis which is equidistant from points (-1,0) and (5,0) is
 - (a) (0, 2)

(b) (2, 0)

(c)(3,0)

- (d) (0, 3)
- 27. If one if the root of the equation $\chi^2 = 6$ =x is 3 then the other root is
 - (a) 2

(b) 3

(c) -2

- (d) -3
- 28. If Δ = 4 of the given equation the roots of the equation should be
 - (a) Real and rational
- (b) Roots are imaginary
- (c) Real and irrational
- (d) Roots are equal

- 29. 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) $\chi^2 9\chi 9 = 0$
- 30. $9 \sec^2 A 9 \tan^2 A =$
- (a) 1

(b) 9

(c) 8

- (d) 0
- 31. (secA+tanA)(1-sin A)=
 - (a) Sec A

(b) Sin A

(c) Cosec A

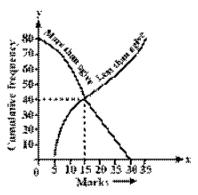
- (d) Cos A
- 32. The length of the string of a kite flying at 100 mts above the ground with the elevation of 60° is:
 - (a) 100 m

- (b) 100 $\sqrt{2} m$
- (c) $\frac{200}{\sqrt{3}} m$
- (d) 200 m
- 33. 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
- 34. If sun s elevation is 600 then a pole of height 6 m will cast a shadow of length .
 - (a) $6\sqrt{3} m$
- (b) $\sqrt{3} \, m$
- (c) $\sqrt{3} m$
- (d) $3\sqrt{2} m$
- 35. In figure 1 the value of the median of the data using the graph of less ttan ogive an more than



(a) 5

(b) 40

(c) 80

(d) 15

36. For the following distribution.

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

The modal class is:

(a) 10-20

(b) 20-30

(c) 30-40

- (d) 50-60
- 37. The class mark of a class interval is
 - (a) Lower limit + Upper limit
- (b) Upper limit Lower limit
- (c) $\frac{1}{2}$ (limit + Upper limit)
- (d) $\frac{1}{4}$ (limit + Upper limit)
- 38. The times, in seconds, taken by 150 athletes to run a 110 m hurdle race are

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

- (a) 11
- (b) 71
- (c) 82
- (d) 130
- 39. A solid sphere of radius x cm is melted and cast into a shape of a solid cone of radius x cm. Then the height of the cone is :
 - (a) 3x cm

(b) x cm

- (c) 4 x cm
- (d) 2 x cm
- 40. The curved surface area of a right circular cone of height 15 cm and base diameter 16 cm is .
 - (a) 60 _π cm²
- (b) 68 _л cm²
- (c) 120 _л cm²
- (d) 136 _π cm²

SCIENCE

- The following gas is released when metals reacts with an acid
 - (a) CO₂

(b) H₂

(c) CO

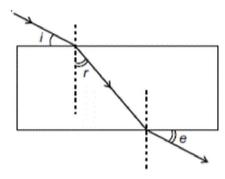
(d) CH₄

- 2. The atomic numbers of four elements P, Q, R and S are 6, 10, 12 and 17 respectively. Which two elements combine to form a covalent compound?
 - (a) P and R
- (b) Q and S
- (c) P and S
- (d) R and S
- 3. Posture and balance of the body is controlled by
 - (a) Cerebrum
- (b) Cerebellum
- (c) Medulla
- (d) Pons.
- 4. Which of these is a plant harmone?
 - (a) Insulin
- (b) Thyroxin
- (c) Estrogen
- (d) cytokinin
- The magnetic field lines inside a long current-carrying solenoid are nearly
 - (a) straight
- (b) circular
- (c) parabolic
- (d) delliptical
- 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,



 A student traces the path of a ray of white light through a rectangular glass slab and marks the angles of incidence r) and i), refraction ((
 e) as emergence (shown.

[2012, 2014



Which angle or angles have not been marked correctly?

- (a) i only
- (b) i r and
- (c) r e and
- (d) i and
- 8. Observe the figure, The image formed in the figure is



- (a) Real, inverted, diminished
- (b) Virtual, erect, diminished
- (c) Virtual, erect, enlarged
- (d) Real, inverted, enlarged
- 9. 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)

- 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
- 11. Food cans are coated with tin and not with zinc because
 - (a) Zinc is costhier
- (b) Zinc has higher melting point than tin
- (c) Zinc is more reactive than tin
- (d) Zinc is less reactive than tin
- The opening and closing of the stomatal pore depends upon
 - (a) Oxygen
- (b) Temperature
- (c) Water in guard cells
- (d) Concentration of CO2
- 13. Which of the following statements does not apply to elements belonging to the same period

the periodic table?

- (a) The number of valence electrons increases on moving from left to right.
- (c) The atomic size goes on decreasing from left to right.
- (b) The atomic size increases from left to right.
- (d) The metallic character of elements decreases from left to right
- 14. Aquaregia means
 - (a) Mixture of concentrated HCL and HNO3 in the ratio 3:1
 - (c) Mixture of concentrated HCL and acetic acid in the ratio 1:3
- (b) Mixture of dilute HCL and H2SO4 in the ratio 1:3
- (d) Mixture of concentrated HNO3 and H2SO4 in the r3:1
- 15. The process of digestion in humans is completed in
 - (a) Oesophagus
- (b) Small intestine
- (c) Stomach
- (d) Large Intestine
- 16. In males, testosterone is produced by cells
 - (a) Sertoli
- (b) Leydig cells
- (c) Oxyntic cells
- (d) Seminiferous tubules
- 17. The PH value of mouth is
 - (a) 5.0

(b) 5.5

(c) 5.3

(d) 5.1





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



- 18. Which of the following relates to multipurpose protected areas meant for conservation of wildlife
 - (a) National Parks

(b) Biosphere reserves

(c) Wildlife sanctuaries

- (d) None of these
- 19. Methyl orange is
 - (a) a) red in acidic medium, yellow in basic medium.
 - (c) c) colourless in acidic medium, red in basic medium.
- **(b)** b) yellow in acidic medium, red in basic medium.
- (d) d) red in acidic medium, colourless in basic medium.
- 20. The combination responsible for admitting different amounts of light into the eye is
 - (a) ciliary maches and crystalline lens

(b) ciliary muscles and pupil

(c) iris and pupil

- (d) rods and cones
- 21. A student while observing an embryo of a pea

seed in the laboratory listed various parts of the

embryo as given below:

Testa, Tegmen, Radicle, Plumule, Micropyle,

Cotyledon.

On examining the list the teacher remarked that only three parts are correct.

Select three correct parts from the above list:

[2016]

(a) Testa, Radicle, Cotyledon **(b)** Tegmen, Radicle, Micropyle

(c) Cotyledon, Plumule, Testa

- (d) Radicle, Cotyledon, Plumule
- 22. Which law was put forward by Ernst Haeckel?

(a) Law of inheritance

(b) Biogenetic law

(c) Law of segregation

- (d) Law of dominance.
- 23. 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.

24. In case of a bar magnet the magnetic lines of force

(a) originate from north pole and terminate at south pole

(b) originate from south pole and terminate at north pole

(c) are continuous lines

(d) none

25. Hydrogen gas is not liberated when a metal react 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 gain hydrogen
- 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
- 27. Q. 2. The most abundant metal in earth's crust is:

(a) (a) Cu

(b) (b) AI

(c) (c) O₂

- (d) (d) Fe
- 28. Which one of the following pairs correctly matches a harmone with a disease resulting from its deficiency?

(a) Thyroxine-Tetany

- **(b)** Parathyroid hormone-Diabetes mellitus
- (c) Luteinizing harmone-Failure of ovulation
- (d) Insulin---- Diabetes insipidus.
- 29. Which of the following metals do not react with cold as well as hot water?

(a) Na

(b) Ca

(c) Mg

- (d) Fe
- 30. 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.

A student takes Na₂CO₃ powder in a test tube and pours some drops of acetic acid in it.

He observes

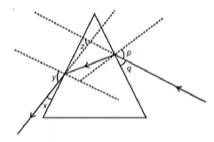
- (a) No reaction in the test tube
- (b) Colourless gas with pungent smell
- (c) Bubbles of a colourless and odourless gas
- (d) White fumes with smell of vinegar







32. Study the following ray diagram



In this diagram, the angle of incidence, the

angle of emergence and the angle of deviation

respectively have been represented by

[2017]

(a) y, p, z

(b) x, q, z

(c) p, y, z

- (d) p, z, y
- Magnification produced by a mirror is + 1.5. The mirror is
 - (a) concave
- (b) may be concave or convex
- (c) convex
- (d) none
- 34. The number of groups and periods in the modem periodic table respectively, are
 - (a) 7 and 9
- (b) 18 and 7
- (c) 7 and 18
- (d) 9 and
- 35. 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
- 36. A multimeter is used to measure:
 - (a) current only
- (b) resistance only
- (c) voltage only
- (d) current, resistance and voltage.
- 37. If salivary amylase is lacking in the saliva, which of the following events in the mouth cavity will be affected?
 - (a) Proteins breaking down into amino acids
- (b) Starch breaking down into sugar
- (c) Fats breaking down into fatty acids and glycerol
- (d) Absorption of vitamins.

- 38. 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.
- The famous movement that was started by women of Advani village in Tehri-Garbawal agains felling of trees
 - (a) Chipko movement
- (b) Appiko movement
- (c) Bishnoi movement
- (d) Bahuguna movement,
- 40. 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

SOCIAL STUDIES

- A rumour spread that the cartridges were smeared with the fat of
 - (a) Pig and goat
- (b) Sheep and pig
- (c) Cow and hen
- (d) Cow and pig
- I am an Organisation of the UNO. I sell greeting cards to generate funds to fund my activities. I am
 - (a) UNESCO
- (b) IMF

(c) FAO

- (d) UNICEF
- The Eastern slopes of Western Ghats do not receive rain as much as western slopes because they
 - (a) Lie in the southern part
- (b) Lie in rain shadow area
- (c) Receive more rainfall
- (d) Have thick forests
- The act that became the cause for JallianWallahBhagh massacre
 - (a) Factory act
- (b) Rowlat act
- (c) Press act
- (d) Arms act





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5.	Fazal Ali Commission wa	14. Bhaskara is p		uy a car in future.how would		
	(a) For the linguistic formation of states	(b) In order to integrate the province into Indian union.	(a) Recurring of account		(b) Fixed deposit account	
	(c) To mediate the Jammu Kashmir issue	(d) To sort out the integral differences between the	(c) Savings ba	ınk account	(d) Current account	
	with Pakistan	states	15. China is follow	wing the very	popular religion	
6.	Raghoba approached the	e British for support	(a) Jainism (c) Buddhism		(b) Hinduism(d) Christianity	
	(a) To fight against the Maratha federation (b) To defeat Shaalam II of Mughal empire (c) As Madhav Rao Peshawahad asked him to do so (b) To defeat Shaalam II of Mughal empire Salbai		. ,	on comprising		
			 The Legislation comprising of four rights such as Citizen safety, Information, Appeal and remedy was adopted by. 			
_	-		(a) UK Preside		Indian President	
7.	The labour achieves social control through class, status and stratification is		(c) US Preside		Indian Prime Minister	
	(a) Child Labour	(b) Economic Labour	17. The summer	rainfall in Ker	ala is called as	
	(c) Social Labour	(d) Division of Labour	(a) Kalabaisakh (c) Coffee bloss		(b) Mango showers(d) Andhis	
8.	Jharkhand MukthiMorcha	is an example of	(0) 0000 200		(4) /	
	(a) Tribal Displacement Movement	(b) People Launching movement to protect	duty is	er Court the fees and stamp		
	(c) People's agitation	tress (d) People agitation	(a) Twelve per products or		(b) Ten percent of the products or services	
	against dam construction	against refineries	(c) No fees at a	all	(d) Minimum stamp duty of hundred rupees	
9.	The tropical evergreen for rainfall exceeding.		19. India promotes disarmament because India			
	(a) 250cm	(b) 100cm	(a) Possess nu weapon	clear	(b) Has the largest military	
	(c) 50cm	(d) 30cm	(c) Is a peace I country	oving	(d) Is a developing county	
10). The district having the	largest forest area.	Country			
(a) Uttar Pradesh (b) Madhya Pradesh				 Which article upholds the social justice and people welfare of the state government. 		
	(c) Maharastra	(d) Andra Pradesh	(a) Article39		(b) Article29	
11	. According to 2011 Censu	us women literacy rate is	(c) Article30		(d) Article17	
	(a) 65.46% (b) 82.14% (c) 75% (d) 74%		 Protection of children from Sexual Offences Act is brought into effect on 			
	(6) 7370	(d) 74%	(a) June 19, 20	12	(b) July 19, 2016	
12	 Children fall into trap of r abortions, infanticide as a 	nalnutrition, anemia, disease, a result of	(c) July 31, 194	18	(d) June 19, 2016	
	(a) Child Labour	b) Child trafficking	22. The lesser hir	malayas are	also known as	
		d) Gender discrimination	(a) Himadrii	(b)	Outer Himalaya	
4.0) The entire accorded	aial atatus ta Kamataka ia	(c) Himachal	(d)	Inner himalaya	
13	3. The article accorded spe		23 Movement on	nnosina Kaia	a Nuclear Power Plant took	
	(a) 371A	(b) 371B	place in the s		A THADICAL E OWEL FIAIR LOOK	
	(c) 371J	(d) 371H	(a) Uttar Prade	sh	(b) Tamil Nadu	
			(c) Karnataka	-	(d) Gujarat	





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24. 'Maratha' Paper was published by	34. The earthquage zone which is called 'the zone of			
(a) Jawahar Lal Nehru (b) Ras Behari Bose (c) Balagandhar Tilak (d) V.D Savarkar	moderative intensity' is (a) The Himalaya Zone (a) The Western Chieret	(b) The Peninsular Zone		
25. Damodar valley project is constructed across the river	(c) The Western Gujarat Zone	(d) The Indo-Gangetic Zone		
(a) damodar (b) krishna (c) sutluj (d) Kosi	35. Kissan vikas patra issued by			
26. The company which had 2 billion dollors by 2006 is		ost offices griculture university		
(a) Wipro (b) Balaji tele films (c) Biocon (d) Infosys	36. The article of Indian constitution that advocate the international peace Co-operation is			
27. The director of Balaji Tele films	(a) Article 17	(b) Article 42		
Azim (b) Ekta kapoor	(c) Article 51	(d) Article 93		
(a) Premji	37. The actual burden that will be imposed on the government treasury is indicated by			
(c) Narayan Murthy (d) Naresh Goyal	(a) Revenue deficit (c) Primary deficit	(b) Fiscal deficit (d) Tax deficit		
28. The largest producer of wheat in India is		(d) Tax donoit		
(a) Punjab (b) Andhra Pradesh	38. When did Tippu die			
(c) Rajasthan (d) Uttar pradesh	(a) 1798 (c) 1767	(b) 1799 (d) 1768		
 The reason to create 'Separate Electorate college' in 1909 was to 	39. The first modern paper			
(a) Provide separate representation for constituency of Muslims Europeans	40. The Paper industry is a			
(c) Provide separate representation for Sikhs (d) Reserve some seats for Christians				
30. Who is not a activist of Prarthana samaj				
(a) Mahadeva ranade (b) Bhandarkar				
(c) n.g.chandavarkar (d) Raja ram mohan roy				
31. The summer rainfall in west Bengal is called as				
(a) Kalabaisakhi (b) Mango showers				
(c) Coffee blossoms (d) Andhis				
 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				
33. The right which a person acquires by birth are called				
(a) Fundamental rights (b) Natural rights (c) Human rights (d) Civil rights				
(a) om ngno				

