

Danish Sir's Practice Papers

SSLC MCQ PRACTICE PAPER (July – 2021 Exam)

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

Code no. 2106-28



Time: 2 Hour

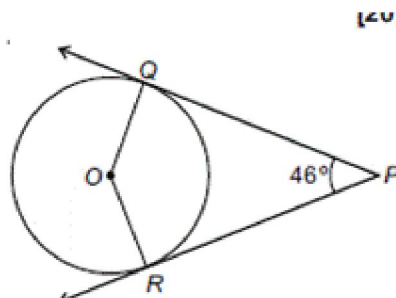
Total Marks: 120

MATHEMATICS

2. 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°
3. If the difference between the circumference and the radius of a circle is 37 cm, then using $\frac{22}{7}$, the circumference of the circle is (in cm)

[2013]

- (a) 154 (b) 44
(c) 14 (d) 7
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

5. If two different dice are rolled together, the probability of getting an even number on both dice, is : [2014]

- (a) $\frac{1}{36}$ (b) $\frac{1}{2}$
(c) $\frac{1}{6}$ (d) $\frac{1}{4}$

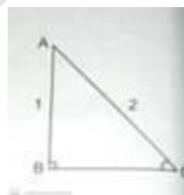
6. A number is selected at random from the numbers 1 to 30. The probability that it is a prime number. [2014]

- (a) $\frac{2}{3}$ (b) $\frac{1}{6}$
(c) $\frac{1}{3}$ (d) $\frac{11}{30}$

7. 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

8. 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



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9. The point (0, 3) lies on

- (a) I Quadrant (b) II Quadrant
(c) x-axis (d) y-axis

10. 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,

11. A straight line which passes through two points on a circle is

- (a) A chord (b) A secant
(c) A tangent (d) The radius

12. If the common difference of an A.P. is -6 then $a_{16} - a_{12}$ is

- (a) 24 (b) 42
(c) 30 (d) -24

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. If $\sin A = \frac{1}{2}$, then the value of $\cot A$ is

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

15. If the midpoint of A(x,y) and B(4,7) is P(3,7) then the coordinates A is

- (a) (2,6) (b) (7,12)
(c) (1,2) (d) (2,3)

16. $X+2y-4=0$ and $2x+4y-12=0$ then the lines are

- (a) Coincide (b) Parallel
(c) Intersect (d) None of these

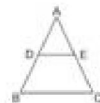
17. The maximum value of $\sin \theta$ is

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

18. Which of the following is false in A.P.

- (a) $T_{n+1} = T_n + d$
(b) $S_n - S_{n-1} = T_n$
(c) $A = \frac{a+b}{2}$
(d) $d = \frac{T_n + a}{n-1}$

19. 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

20. The areas of similar triangles are proportional to

- (a) Corresponding sides (b) Square root of corresponding sides
(c) Square of corresponding sides (d) Cubes root of corresponding sides

21. Perimeter of a square is 40cm then the length of diagonal is

- (a) 100cms (b) $10\sqrt{2}$ Cms
(c) $5\sqrt{2}$ Cms
(d) 5cms

22. 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

23. The pair of linear equations $8x - 5y = 7$ and $5x - 8y = -7$ have

- (a) One solution (b) Two solution
(c) No solution (d) Many solution

24. 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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25. The distance of the point (4,7) from the Y – axis is

- (a) 4 (b) 7
(c) 11 (d) $\sqrt{65}$

26. 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) $x^2 + 3x + 28 = 0$

27. 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) Adfectod quadratic equation (b) Pure quadratic equation
(c) Linear equation (d) Bio- quadratic equation

28. 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) $\frac{5}{12}\sqrt{10}$

29. $(\sec A + \tan A)(1 - \sin A) =$

- (a) Sec A (b) Sin A
(c) Cosec A (d) Cos A

30. 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°

31. 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 l a horizontal plane is

- (a) 30° (b) 60°
(c) 90° (d) 45°

32. 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°

33. If the height and length of the shadow of a man are same, then the angle of elevation of the sun

- (a) 30° (b) 60°
(c) 45° (d) 15°

34. 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

35. For a symmetrical distribution, which is correct

- (a) Mean > Mode > Median (b) Mean < Mode < Median
(c) Mode = $\frac{\text{Mean} + \text{Median}}{2}$ (d) Mean = Mode = Median

36. 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

SCIENCE

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

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

2. 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.
(b) The atomic size increases from left to right.
(c) The atomic size goes on decreasing from left to right.
(d) The metallic character of elements decreases from left to right



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3. The number of pair(s) of sex chromosomes in a human diploid cell is

- (a) one (b) two
(c) three (d) four.

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. Coliform is a group of

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

7. A prism splits up a beam of white light into seven colours because ----- is different colour

- (a) Amplitude (b) Speed
(c) Energy (d) none

8. Advanced sunrise and delayed sunset are explained on the basis of

- (a) Dispersion of light (b) Scattering of light
(c) White colour of clouds (d) Atmospheric refraction

9. 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

10. 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 normal (b) is refracted away from the normal
(c) is refracted away from the normal (d) is reflected along the same path.

11. The colours of aqueous solutions of CuSO_4

4

and

FeSO_4

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 green respectively (d) Dark blue and pale green respectively

12. Which of the following is the correct sequence of events of sexual reproduction in flowers?

- (a) Pollination, fertilization, seedling, embryo. (b) Seedling, embryo, fertilization, pollination.
(c) Pollination, fertilization, embryo, seedling. (d) Embryo, seedling, pollination, fertilization

13. In which of the following chemical equations, the abbreviations represent the correct states of the reactions and products involved at reaction temperature?

- (a) $2\text{H}_2(\text{l}) + \text{O}_2(\text{l}) \ggg 2\text{H}_2\text{O}(\text{g})$ (b) $2\text{H}_2 + \text{O}_2 \gggg 2\text{H}_2\text{O}(\text{g})$
(c) $2\text{H}_2(\text{g}) + \text{O}(\text{g}) \ggg 2\text{H}_2\text{O}(\text{l})$ (d) $2\text{H}_2 + \text{O}_2 \ggg 2\text{H}_2\text{O}(\text{l})$

14. Which gas is harnessed from bio-mass?

- (a) LPG (b) CNG
(c) ethane (d) methane



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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 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. 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 value of mouth is
- (a) 5.0
(b) 5.5
(c) 5.3
(d) 5.1
18. Watershed management
- (a) increases droughts and floods
(b) increases the production and income of the watershed community
(c) decreases the biodiversity of the downstream reservoirs
(d) increases deforestation.
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. Which of the following endocrine glands is unpaired?
- (a) Adrenal
(b) Testes
(c) Pituitary
(d) Ovary
21. Which of the following characters can be acquired but not inherited?
- (a) body weight
(b) body colour
(c) eye colour
(d) all of these.
22. According to Mendeleev's Periodic law, the elements were arranged in the periodic table in the order of
- (a) Increasing atomic number
(b) Decreasing atomic number
(c) Increasing atomic masses
(d) Decreasing atomic masses
23. The splitting up of white light into seven colours on passing through a glass prism is called
- (a) Refraction
(b) Deflection
(c) Dispersion
(d) scattering
24. The non renewable form of energy among these is
- (a) Solar energy
(b) Wind energy
(c) Nuclear energy
(d) Ocean thermal energy
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. 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
27. The functional group present in ethanol is
- (a) —CO
(b) —OH
(c) —CHO
(d) —COOH
28. Which of the following pairs of two vegetables represent the correct homologous structures?
- (a) Sweet potato and potato
(b) Sweet potato and tomato
(c) Carrot and potato
(d) Radish and carrot



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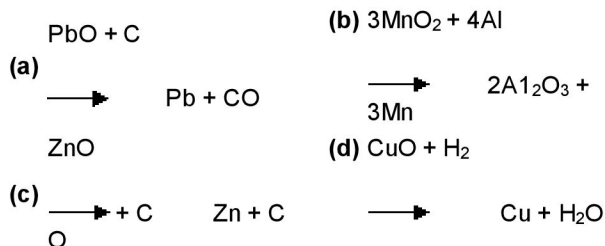
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29. Reactive metals are good reducing agents. The most suitable example related to this is



30. 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.

31. 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

32. Spinal cord originate from

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

33. 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

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. An aqueous solution turns red litmus solution blue. Excess addition of which of the following solutions would reverse the change

- (a) Baking powder (b) Lime
(c) Ammonium hydroxide solution (d) Hydrochloric acid

36. When the speed of the coil of generator is increased

- (a) The induced emf decreases but frequency increases (b) The induced emf increases but frequency decreases
(c) The induced emf increases and the frequency increases (d) The induced emf decreases and the frequency decreases

37. The group of organisms that reproduce through fission only is

- (a) Amoeba, Hydra, spirogyra (b) Leishmania, Ameoba, yeast
(c) Ameoba, Plasmodium, Planaria (d) Plasmodium, Ameoba, leishmania

38. What happens when a solution of an acid is mixed with a solution of a base in a test tube?

- (a) The temperature of the solution increases
(b) The temperature of the solution decreases (c) The temperature of the solution remains same (d) Salt formation takes place

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

39. Wings of an insect and a bird are example of which organs?

- (a) Homologous (b) Analogous
(c) Vestigial (d) analytic

40. The most important safety method used for protecting home appliances from short circuiting or overloading is

- (a) Earthing (b) Use of fuse
(c) Use of sterilizer (d) Use of electric meter

SOCIAL STUDIES

1. Halgali rebels were basically

- (a) Farmers (b) Carpenters
(c) Bedas (d) Black smiths

2. The king who did not want to merge with the Indian union and remain independent was

- (a) Sheik abdullah (b) Bahadursha
(c) hari singh (d) Ranjith singh

3. The number of national parks of India are

- (a) 100 (b) 200
(c) 99 (d) 90

4. Shamu is starting new business, which account is helpful to him

- (a) Current account (b) Saving bank account
(c) Recurring deposit account (d) Fixed deposit account

5. The book gulagiri was written by

- (a) Raja ram mohan roy (b) Jyothibha phule
(c) M. G. Ranade (d) Dayananda saraswathi



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6. The British historians called the revolt of 1857 as
 (a) First war of independence (b) Sepoy mutiny
 (c) Iworld war (d) II world war
7. The Maratha ruler who granted a pension after the 3rd Anglo Maratha war.
 (a) Malhar rao holkar (b) Appa saheb
 (c) Peshwa baji rao II (d) Pratap simha
8. The actual burden that will be imposed on the government treasury is indicated by
 (a) Revenue deficit (b) Fiscal deficit
 (c) Primary deficit (d) Tax deficit
9. Which article upholds the social justice and people welfare of the state government .
 (a) Article39 (b) Article29
 (c) Article30 (d) Article17
10. Red soil is covered in an area of
 (a) 5.2 lakh (b) 5.46 lakh
 (c) 15 lakh (d) 2.85 lakh
11. India has ____type of climate
 (a) Tropical monsoon (b) Temperature
 (c) Tundra (d) Monsoon
12. Movement opposing Kaiga Nuclear Power Plant took place in the state
 (a) Uttar Pradesh (b) Tamil Nadu
 (c) Karnataka (d) Gujarat
13. The article of Indian constitution that advocate the international peace Co-operation is
 (a) Article 17 (b) Article 42
 (c) Article 51 (d) Article 93
14. First Round Table Conference was held in ____
 (a) 1930 (b) 1932
 (c) 1931 (d) 1942
15. According to 2011 India's HDI Rank among 187 countries.
 (a) 136 (b) 137
 (c) 135 (d) 138
16. The right which a person acquires by birth are called
 (a) Fundamental rights (b) Natural rights
 (c) Human rights (d) Civil rights
17. U.N.O adopted the Human Rights declaration in the year
 (a) 1945 (b) 1950
 (c) 19947 (d) 1948
18. The lesser himalayas are also known as ____
 (a) Himadrii (b) Outer Himalaya
 (c) Himachal (d) Inner himalaya
19. Tele shopping is possible due to
 The establishment of Na (b) Price fixation of goods and services
 (a) tional Congress protecti on congress
 (c) World consumer movem ent (d) The developer of information technology
20. The article accorded special status to Kamataka is
 (a) 371A (b) 371B
 (c) 371J (d) 371H
21. 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
22. Plato wrote book called
 (a) Politics (b) The republic
 (c) Democracy (d) Nationalism
23. Jharkhand MukthiMorcha is an example of
 (a) Tribal Displacement Movement (b) People Launching movement to protect tress
 (c) People's agitation ag ainst dam constructi on (d) People agitation against refineries
24. Which one of the following is not a bank account?
 (a) Cummulative bank acc ount (b) Savings bank account
 (c) Term deposed account (d) Current account
25. The river was called 'sorrow of Bengal'
 (a) mahanadi (b) krishna
 (c) damodar (d) kosi



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26. The chairman of Wipro Technologies .
 (a) Azim Premji
 (b) Ekta Kapoor
 (c) Varghese Kurein
 (d) Narayan Murthy
27. Named Bachaavo movement was led by
 (a) Medha Patkar
 (b) Arjun Aradhya
 (c) Tehari Gharwals
 (d) Villagers og Salyani
28. The district having the largest forest area is.
 (a) Uttar Pradesh
 (b) Madhya Pradesh
 (c) Maharashtra
 (d) Goa
29. The direct tax among these
 (a) Stamp duty
 (b) Penalties
 (c) GST
 (d) VAT
30. 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
31. Ruyly of Jaisalmar in India is the
 (a) Wettest Place
 (b) Hottest Place
 (c) Coldest place
 (d) Driest place
32. The best example for organized Sector workers
 (a) Beedi Workers
 (b) soldiers
 (c) Agricultural laborers
 (d) Petty building construction laborers
33. The word wagh means
 (a) Lion
 (b) Tiger
 (c) Brave
 (d) Courage
34. The director of Balaji Tele films
 (a) Azim Premji
 (b) Ekta Kapoor
 (c) Narayan Murthy
 (d) Naresh Goyal
35. Invisible hungers refer to
 (a) nutrition
 (b) malnutrition
 (c) Hunger in rich people
 (d) Balanced diet
36. The earthquake zone which is called 'the zone of moderative intensity' is
 (a) The Himalaya Zone
 (b) The Peninsular Zone
 (c) The Western Gujarat Zone
 (d) The Indo-Gangetic Zone
37. Muslim league was founded in
 (a) 1924
 (b) 1922
 (c) 1929
 (d) 1906
38. The tallest peak in South India is
 (a) Madhugiri
 (b) Neelagiri
 (c) Annaimudi
 (d) Amakonda
39. 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
40. Jawahar Lal Nehru outlined Indian foreign policy on
 (a) September 7, 1946
 (b) September 7, 1948
 (c) December 25, 1946
 (d) December 25, 1948
41. The Headquarters of UNO's secretariat is at
 (a) Paris
 (b) New York
 (c) Washington D.C
 (d) Hague
42. Raghoba approached the British for support
 (a) To fight against the Maratha federation
 (b) To defeat Shaalam II of Mughal empire
 (c) As Madhav Rao Peshwa asked him to do so
 (d) As per the treaty of Salbai
43. The first modern paper mill set up in 1933 at _____
44. The first railway line in India was laid between _____ and _____



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