

LAKSHYA IIT ACADEMY

SCHOLARSHIP TEST -2026 SYLLABUS

Maths	<ol style="list-style-type: none">1. Polynomials2. Quadratic Equations3. Arithmetic progression4. Triangles5. Coordinate Geometry6. Trigonometry7. Circles8. Surface areas and volumes9. Probability10. Applications of Trigonometry11. Areas Related to Circles12. Linear equation in two variables13. Real numbers14. Statistics
Physics	<ol style="list-style-type: none">1. Reflection of Light2. Refraction of Light3. Defects of Vision4. Current Electricity5. Magnetic effects of electric current6. Heating effects of electric current
Chemistry	<ol style="list-style-type: none">1. Atomic Structure2. Mole Concept3. Metals and Non-Metals4. Acids, Bases and Salts5. Chemical Reactions and Equations6. Carbon and its compounds

Note:

- Exam pattern @ Objective
- +2 marks for correct answer
- -0.5 marks (negative marking) for wrong answer
- Duration of Exam - 1 Hour
- Total number of questions @ 50
- For MPC @ **Maths - 20, Physics - 15 & Chemistry - 15**

DEEKSHYA MEDICAL ACADEMY

SCHOLARSHIP TEST - 2026 SYLLABUS

Physics	<ol style="list-style-type: none">1. Reflection of Light2. Refraction of Light3. Defects of Vision4. Current Electricity5. Magnetic effects of electric current6. Heating effects of electric current
Chemistry	<ol style="list-style-type: none">1. Atomic Structure2. Mole Concept3. Metals and Non-Metals4. Acids, Bases and Salts5. Chemical Reactions and Equations6. Carbon and its compounds
Biology	<ol style="list-style-type: none">1. Life Processes2. Control and Coordination3. How Organisms reproduce4. Heredity5. Our environment

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DAFNE CIVILS ACADEMY

SCHOLARSHIP TEST SYLLABUS FOR

CIVILS / LAW / NIFT / CUET / IIM / IPMAT ASPIRANTS.

S.No	Subject	Topic	Marks
1	English	<ul style="list-style-type: none">• Reading Comprehension• Vocabulary• Grammar	20
2	Maths & Aptitude	<ul style="list-style-type: none">• Quadratic Equations• Basic Arithmetic (HCF & LCM)• Averages• Algebra	20
3	GK & Current Affairs	--	10
4	Social – Class X standard	<ul style="list-style-type: none">• History• Geography• Civics• Economics	20
5	Logical	<ul style="list-style-type: none">• Puzzles	10
6.	Descriptive	General awareness and interpersonal questions	20
			100 Marks

Exam Pattern (Time – 60 min)

- MCQ Based

- ✓ +2 for correct answer
- ✓ -0.50 for (negative marking) or wrong answer
- ✓ Subjective test – follows MCQ based test

- Descriptive

- ✓ This included general awareness and interpersonal questions.
- ✓ Questions: 4 × 5 Marks – 20 Marks



SRI SHIRDI SAI

GROUP OF INSTITUTIONS

KADIAM | RAJAHMUNDRY



IIT ACADEMY

LSAT-2026

Group : M.P.C

Duration : 1 Hour

Marks : 100

SET - A

Name of the Student :

Name of the School :

Contact No : Date :

INSTRUCTIONS TO THE CANDIDATES

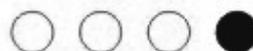
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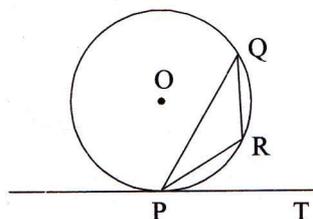
WRONG METHODS

CORRECT METHODS



MATHEMATICS

1. Which term of A.P. $20, 19\frac{1}{4}, 18\frac{1}{2}, \dots$ is first negative term?
 - a) 18th
 - b) 15th
 - c) 28th
 - d) 27th
2. If ratio of heights of two similar triangles is 4 : 9, then ratio between their areas is
 - a) 2 : 3
 - b) 3 : 2
 - c) 81 : 16
 - d) 16 : 81
3. If $p + q + r = 0$ then the value of $\frac{2p^2(q+r) + 2q^2(p+r) + 2r^2(p+q)}{pqr}$ will be
 - a) $3pqr$
 - b) $\frac{1}{pqr}$
 - c) 6
 - d) -6
4. For which positive values of k and p, equations $2x^2 + px + 8 = 0$ and $p(x^2 + x) + k = 0$ have equal roots?
 - a) $k = 1, p = 4$
 - b) $k = 2, p = 8$
 - c) $k = 4, p = 8$
 - d) $k = 2, p = 4$
5. In figure, PQ is a chord of a circle with centre O and PT is its tangent at P. If $\angle QPT = 60^\circ$, then $\angle PQR$ is



- a) 105°
 - b) 115°
 - c) 120°
 - d) 130°
6. The angle of elevation of the top of a 12 m high tower from two points in opposite directions with it are complementary. If distance of one point from its base is 16 m, then distance of second point from tower's base is
 - a) 24m
 - b) 9m
 - c) 12m
 - d) 18m
 7. Read the following statements carefully and choose the correct alternative.
 - 1) The slope of the line parallel to X-axis can be derived by the formula $\frac{x_2 - x_1}{y_2 - y_1}$
 - 2) The slope of the line parallel to Y-axis is 1
 - 3) The cotangent ratio of an angle made by the line with the positive direction of X-axis is called the slope of that line.

4) The slope of the line which makes acute angle with X-axis is less than zero and the slope of the line making obtuse angle with X-axis is greater than zero.

Alternative:

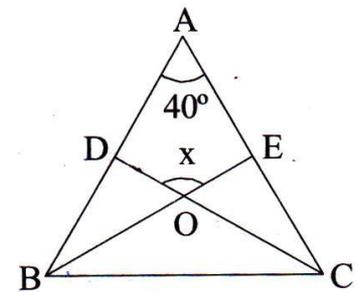
- a) Statement 1 and 2 correct b) Statement 3 and 4 correct
 c) Only statement 3 is wrong d) All statements are wrong

8. The shadow of a tower, when the angle of elevation of the sun is 30° is found to be 10 metre longer than when it was 60° . The height of the tower will be

- a) $5\sqrt{3}m$ b) $5(\sqrt{3}-1)m$ c) $5(\sqrt{3}+1)m$ d) $3\sqrt{5}m$

9. In the given figure, $AB = AC$, $\angle BAC = 40^\circ$, BE and CD are angle bisectors of $\angle B$ and $\angle C$ respectively. If $\angle DOE = x$, the value of x is

- a) 140° b) 70°
 c) 110° d) 40°



10. If the sum of 'n' terms of an arithmetic progression is $S_n = 3n + 2n^2$ then its common difference is

- a) 9 b) 6 c) 4 d) 3

11. A circle is inscribed in a square of side 2.5 cm. Another circle is circumscribing this square. The ratio of areas of outer circle and inner circle is

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

12. If α, β are zeros of polynomial $x^2 - p(x+1) - k$ such that $(\alpha+1)(\beta+1) = 6$, then value of k is

- a) 5 b) -1 c) -3 d) -5

13. If $217x + 131y = 913$ and $131x + 217y = 827$, then the value of $x + y$ is

- a) 8 b) 5 c) 7 d) 6

14. The value of $\cos^2 5^\circ + \cos^2 10^\circ + \cos^2 15^\circ + \dots + \cos^2 85^\circ + \cos^2 90^\circ$ is

- a) $9\frac{1}{2}$ b) 9 c) $8\frac{1}{2}$ d) 8

15. If the distance between the points (4, q) and (1, 0) is 5 units then the value of q is

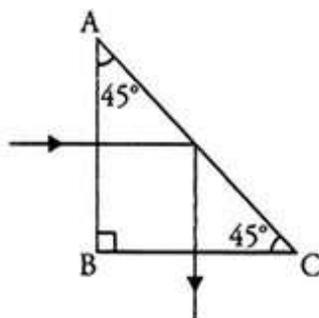
- a) 4 b) -4 c) ± 4 d) 0

16. If two angles of a triangle are $87^{\circ}24'54''$ and $32^{\circ}31'6''$, the third angle is
- a) $\frac{\pi}{6}$ b) $\frac{\pi}{2}$ c) $\frac{\pi}{3}$ d) $\frac{\pi}{4}$
17. The volume and whole surface area of a cylindrical solid of radius 'r' units are v and s respectively. If the height of cylinder is 1 unit then $\frac{v}{s}$ is equal to
- a) $\frac{1}{2}\left(1-\frac{1}{r+1}\right)$ b) $\frac{1}{2}\left(1+\frac{1}{r+1}\right)$ c) $\frac{1}{2}\left(1-\frac{1}{r}\right)$ d) $\frac{1}{2}\left(1+\frac{1}{r}\right)$
18. The sum of the reciprocals of the roots of the equation $\frac{101}{123}x + \frac{1}{x} + 1 = 0$ is
- a) $\frac{-101}{123}$ b) $\frac{123}{101}$ c) -1 d) 1
19. One hundred cards are numbered from 1 to 100. The probability that a card chosen at random has the digit 5 is
- a) $\frac{19}{100}$ b) $\frac{100}{19}$ c) $\frac{10}{100}$ d) $\frac{5}{100}$
20. Water flows out through a circular pipe whose internal diameter is 2 cm, at the rate of 6 metres per second into a cylindrical tank. The radius of whose base is 60 cm. the rise in the level of water in 30 minutes is
- a) 3 m b) -3 m c) 6 m d) -6 m

PHYSICS

21. When a ray of light from air enters a denser medium, it
- a) bends away from the normal b) bends towards the normal
- c) goes undeviated d) is reflected back
22. A ray of light passes through a right angled prism as shown in the figure, then the angles of incidence at the faces AC and BC are

- a) $45^{\circ}, 0^{\circ}$
- b) $45^{\circ}, 45^{\circ}$
- c) $45^{\circ}, 90^{\circ}$
- d) $90^{\circ}, 45^{\circ}$



23. The refractive index of a transparent medium is
- a) least for red colour light b) maximum for violet colour light
 c) maximum for red colour light d) both a and b
24. We cannot discuss the size and nature of image formed while using an equiconvex lens when the object is placed
- a) in between F & optical centre at b) at focus
 c) in between F and 2F d) beyond 2F
25. When an object is placed at a distance 40cm from an equiconvex lens its image is also formed at the same distance as the object, then the focal length of the lens is
- a) 10cm b) 80 cm c) 40 cm d) 20 cm
26. Among the following cases the image formed by a convex lens is not real
- a) $0 < u < f$ b) $f < u < 2f$ c) $2f < u < \infty$ d) at 2f
27. A lens forms an inverted image of an object then
- a) the lens is convex and the image is real
 b) the lens is convex and the image is virtual
 c) the lens is concave and the image is real
 d) none of these
28. The phenomenon of electromagnetic induction is
- a) the process of charging a body
 b) the process of generating magnetic field due to current passing through a coil
 c) producing induced current in a coil due to relative motion between a magnet and a coil
 d) all the above
29. According to right hand thumb rule, whose direction is indicated by a thumb?
- a) Electric current b) Magnetic field c) Magnetic force d) Motion of a conductor
30. When the power of eye lens increases, the defect of vision is produced. This defect of vision is known as
- a) short sightedness b) long sightedness
 c) colour blindness d) none of the above
31. Stars are not visible in the day time because
- a) stars hide behind the sun
 b) stars do not reflect sun rays during day

c) start vanish during the day

d) atmosphere scatters sunlight into a blanket of extreme brightness through which faint stars cannot be visible

32. Match the column I with column II and select the correct option from the codes given below.

Column

Column II

A) Choroid

i) Detects light stimulus absorbs light and prevent

B) Retina

ii) it from being reflected within the eyeball

C) Cornea

iii) Controls the size of the pupil

D) Iris

iv) Helps to focus light as it enters the eye

a) A-ii , B-i, C-iv, D-iii

b) A-i , B-ii, C-iii, D-iv

b) A-ii , B-iii, C-iv, D-i

d) A-iii , B-iv, C-i, D-iii

33. Which of the following phenomena cannot be explained by scattering of light?

a) Blue colour of sky

b) White colour of clouds

c) Tyndall effect

d) Formation of rainbow

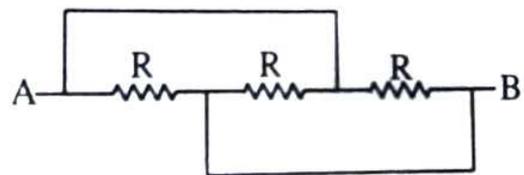
34. The resistance across A and B is

a) 3R

b) R

c) $\frac{R}{3}$

d) 2R



35. The relation between volt, watt and ampere is

a) volt = watt x ampere

b) watt = volt x ampere

c) ampere = volt x watt

d) none of these

CHEMISTRY

36. Elements do emit radiation on their own and this property is known as
- a) radio activity b) refraction c) absorption d) emission
37. An element 'X' having atomic number 20 combines chemically with another element 'y' having atomic number '8' to form a compound 'z'. Which of the following statements are correct about the compound 'z'?
- i) The formula of z is XY_2
ii) Melting point of 'Z' is very high
iii) Molten form of Z does not conduct electricity
iv) 'Z' is soluble in water but insoluble in petrol
- a) i, ii and iv b) i, ii and iii c) ii and iv d) ii and iii
38. What happens to the atomic number during a chemical reaction?
- a) It increases b) It decreases
c) Remains the same d) Changes alternatively
39. The correct order of first ionisation enthalpy value for elements of 2nd period is
- a) $B < Be < C < O < N$ b) $Be < B < N < C < O$
c) $Be < B < C < N < O$ d) More than one of the above
40. Which one will have the highest 2nd ionisation energy.
- a) $1s^2 2s^2 2p^6 3s^1$ b) $1s^2 2s^2 2p^4$ c) $1s^2 2s^2 2p^6$ d) $1s^2 2s^2 2p^6 3s^2$
41. Pick out the chemically most reactive elements from the given triads Li, Na, K, F, Cl, Br
- a) Li and F b) Li and Br c) K and F d) K and Br
42. The nature of calcium phosphate is present in tooth enamel is
- a) basic b) amphoteric c) acidic d) neutral
43. An aqueous solution turns the 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

44. Match the correct substance that are used to neutralise effect of column A
- | | |
|-----------------------|-------------------------------|
| A) Ant sting | I) Vinegar |
| B) Wasp sting | II) Put skin in running water |
| C) Acidity in stomach | III) Baking soda |
| D) Acid fall on skin | IV) Milk of Magnesia |
- a) A-III, B-I, C-IV, D-II b) A-III, B-II, C-IV, D-I
c) A-II, B-IV, C-III, D-I d) A-III, B-II, C-IV, D-I
45. Which of the following compounds of carbon does not consists of ions?
- a) CaCO_3 b) NaHCO_3 c) CHCl_3 d) CaC_2
46. Which of the following is the molecular formula of cyclobutane?
- a) C_4H_{10} b) C_4H_6 c) C_4H_4 d) C_4H_8
47. Oils on treating with hydrogen in the presence of palladium or nickel catalyst form fats. This is an example of
- a) Addition reaction b) Substitution reaction
c) Displacement reaction d) Oxidation reaction
48. Thermite is a mixture of
- a) 1 Part of powdered Al and 1 part of Fe_2O_3
b) 1 Part of powdered Al and 3 parts of Fe_2O_3
c) 2 parts of powdered Al and 1 part of Fe_2O_3
d) 3 parts of powdered Al and 1 part of Fe_2CO_3
49. The total reaction in rusting the iron is
- a) $\text{Fe} + 6\text{CO} \rightarrow \text{Fe}(\text{CO})_6$ b) $3\text{Fe} + 3\text{O}_2 \rightarrow 3\text{FeO}_2$
c) $2\text{Fe} + \text{O}_2 + 4\text{H}^+ \rightarrow 2\text{Fe}^{+2} + 2\text{H}_2\text{O}$ d) $\text{Fe} + 3\text{H}_2\text{O} \rightarrow \text{Fe}(\text{OH})_3 + \frac{3}{2}\text{H}_2$
50. When SO_2 gas is passed through saturated solution of H_2S , which of the following reaction occurs?
- a) $\text{SO}_2 + 2\text{H}_2\text{S} \rightarrow 2\text{H}_2\text{O} + 3\text{S}$ b) $\text{SO}_2 + 2\text{H}_2\text{S} \rightarrow \text{H}_2\text{O} + \text{S}$
c) $\text{SO}_2 + \text{H}_2\text{S} \rightarrow \text{H}_2\text{O} + \text{S}$ d) $\text{SO}_2 + \text{H}_2\text{O} \rightarrow \text{SO}_3 + \text{H}_2$



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GROUP OF INSTITUTIONS

KADIAM | RAJAHMUNDRY



MSAT-2026

Group : Bi.P.C

SET - A

Duration : 1 Hour

Marks : 100

Name of the Student :

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WRONG METHODS CORRECT METHODS



BIOLOGY

- Cell division in plants is stimulated by
 - Cytokinins
 - Gibberellin
 - Auxin
 - Ethylene
- Identify the mismatched pair.
 - Charles Darwin - Natural selection
 - Charles Lyell - Principles of Geology
 - August Weismann - Principles of population
 - James Watson - DNA
- Which of the following diseases represent STDs?
 - Typhoid, T.B
 - AIDS, Gonorrhoea
 - Dengue, Syphilis
 - Malaria, Chickenpox
- Plants with weak stems like in cucumber and bitter gourd show
 - Phototropism
 - Thigmotropism
 - Geotropism
 - Chemotropism
- What is your dental formula?
 - $\frac{3, 2, 1, 2}{3, 2, 1, 2}$
 - $\frac{1, 2, 2, 3}{1, 2, 2, 3}$
 - $\frac{2, 1, 2, 3}{2, 1, 2, 3}$
 - $\frac{2, 3, 1, 2}{2, 3, 1, 2}$
- The excretory organ in cockroach
 - nephridia
 - raphides
 - ureters
 - malpighian tubules
- Number of vestigial organs in human
 - 160
 - 170
 - 180
 - 190
- Palaeontologist deals with
 - fossil evidences
 - fossilised embryological evidences
 - fossilised vestigial organ evidences
 - all
- Digestive juice without enzymes
 - salivary amylase
 - pancreatic juice
 - bile juice
 - gastric juice
- The vitamin required for the synthesis of nucleic acid
 - Tocopherol
 - Riboflavin
 - Cyanocobalamin
 - Folic acid

11. The term cardiac refers to which organ in the body
a) vein b) capillary c) heart d) lymph
12. Total catchment area of Kolleru lake is
a) 1216 km² b) 6121 km² c) 1126 km² d) 2116 km²
13. Name the plant from which alkaloid scopolamine is obtained.
a) Cinchona b) Papaver somniferum
c) Tridax d) Datura stramonium
14. Which is not a fossil fuel among the following
a) coal b) petroleum c) natural gas d) solar energy
15. How much percentage of the biomass is transferred from one trophic level to the next in a food chain?
a) 70 - 80% b) 10 - 20% c) 80 - 90% d) 20 - 30%
16. Dark reaction takes place in
a) chloroplast b) stroma c) mitochondria d) grana
17. The whole processes of cardiac cycle is approximately completed in
a) 0.6 sec b) 0.7 sec c) 0.9 sec d) 0.8 sec
18. What is the % of carbon dioxide in inhaled air?
a) 0.03% b) 0.13% c) 0.04% d) 0.05%
19. Which of the following is not a Green house gas?
a) Ozone b) Carbon dioxide c) Methane d) Chloro-fluoro carbons
20. If the alveoli of our lungs are spread out they will cover an area of nearly
a) 60 m² b) 160 m² c) 80 m² d) 100 m²

CHEMISTRY

21. Elements do emit radiation on their own and this property is known as
a) radio activity b) refraction c) absorption d) emission
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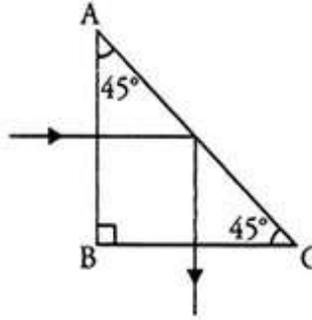
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 a) $\text{SO}_2 + 2\text{H}_2\text{S} \rightarrow 2\text{H}_2\text{O} + 3\text{S}$ b) $\text{SO}_2 + 2\text{H}_2\text{S} \rightarrow \text{H}_2\text{O} + \text{S}$
 c) $\text{SO}_2 + \text{H}_2\text{S} \rightarrow \text{H}_2\text{O} + \text{S}$ d) $\text{SO}_2 + \text{H}_2\text{O} \rightarrow \text{SO}_3 + \text{H}_2$

PHYSICS

36. When a ray of light from air enters a denser medium, it
 a) bends away from the normal
 b) bends towards the normal
 c) goes undeviated
 d) is reflected back

37. A ray of light passes through a right angled prism as shown in the figure, then the angles of incidence at the faces AC and BC are

- a) 45° , 0°
- b) 45° , 45°
- c) 45° , 90°
- d) 90° , 45°



38. The refractive index of a transparent medium is

- a) least for red colour light
- b) maximum for violet colour light
- c) maximum for red colour light
- d) both a and b

39. We cannot discuss the size and nature of image formed while using an equiconvex lens when the object is placed

- a) in between F & optical centre
- b) at focus
- c) in between F and 2F
- d) beyond 2F

40. When an object is placed at a distance 40cm from an equiconvex lens its image is also formed at the same distance as the object, then the focal length of the lens is

- a) 10cm
- b) 80 cm
- c) 40 cm
- d) 20 cm

41. Among the following cases the image formed by a convex lens is not real

- a) $0 < u < f$
- b) $f < u < 2f$
- c) $2f < u < \infty$
- d) at 2f

42. A lens forms an inverted image of an object then

- a) the lens is convex and the image is real
- b) the lens is convex and the image is virtual
- c) the lens is concave and the image is real
- d) none of these

43. The phenomenon of electromagnetic induction is

- a) the process of charging a body
- b) the process of generating magnetic field due to current passing through a coil
- c) producing induced current in a coil due to relative motion between a magnet and a coil
- d) all the above

44. According to right hand thumb rule, whose direction is indicated by a thumb?

- a) Electric current
- b) Magnetic field
- c) Magnetic force
- d) Motion of a conductor



Time : 60 Mins.

Max. Marks:100

DSAT – SAMPLE PAPER

Name of the Student :

Name of the School :

Contact No. : **Date** :

INSTRUCTIONS TO THE CANDIDATES

1. On receiving the booklet, kindly check in case of any misprint / torn / missing pages. If so, please get it replaced.
2. The format of Examination comprises of **40 Multiple Choice Questions** and **4 descriptive questions**. Choose the correct answer from the given options and each **correct answer carries 2 mark** and subjective 5 marks.
3. You must mark all your answers in the OMR sheet provided.
4. There is **(-) 0.50Mark** for each wrong answer.
5. After completion of the exam, you should handover the Test Booklet to the Invigilator.
6. No Rough Work is to be done on the answer sheet.
7. Once the candidate enters the examination hall, he / she shall not be permitted to leave the room till the end of the examination.
8. No electronic gadgets will be permitted inside the exam hall.

INSTRUCTIONS FOR FILLING THE SHEET

- i) OMR sheet should not be folded or crushed.
- ii) Use only blue / black ball point pen to fill the circles.
- iii) Circles should be darkened completely and properly.
- iv) Cutting and erasing on this sheet is not allowed.
- v) Do not use any stray marks on the sheet.
- vi) Do not use marker or white fluid to hide the mark.

WRONG METHODS CORRECT METHODS



ENGLISH

English (20M)

I. Read the following passage carefully and answer the questions that follow

Speech is great blessing but it can also be great curse, for while it helps us to make our intentions and desires known to our fellows, it can also if we use it carelessly, make our attitude completely misunderstood.

A slip of the tongue, the use of unusual word, or of an ambiguous word, and so on, may create an enemy where we had hoped to win a friend. Again, different classes of people use different vocabularies, and the ordinary speech of an educated may strike an uneducated listener as pompous.

Unwittingly, we may use a word which bears a different meaning to our listener from what it does to men of our own class. Thus speech is not a gift to use lightly without thought, but one which demands careful handling. Only a fool will express himself alike to all kinds and conditions to men.

1. The best way to win a friend is to avoid
 - (a) irony in speech
 - (b) pomposity in speech
 - (c) verbosity in speech
 - (d) ambiguity in speech
2. While talking to an uneducated person, we should use
 - (a) ordinary speech
 - (b) his vocabulary
 - (c) simple words
 - (d) polite language
3. If one used the same style of language with everyone, one would sound
 - (a) flat
 - (b) boring
 - (c) foolish
 - (d) democratic

II. Read the following passage carefully and answer the questions that follow

The casual horrors and real disasters are thrown at newspaper reader without discrimination. In the contemporary arrangements for circulating the news, an important element, evaluation is always weak and often wanting entirely. There is no point anywhere along the line somewhere someone put his foot down for certain and says, "This is important and that does not amount to row of beans; deserves no ones attention, and should travel the wires no farther". The junk is dressed up to look as meaningful as the real news.

4. Evaluation of news would imply
 - (a) less dependence on modern systems of communication
 - (b) more careful analysis of each news story and its value
 - (c) Separating beans form junk
 - (d) discriminating horrors from disasters.
5. The writer of the above passage
 - (a) seems to be happy with the contemporary arrangements for circulating news

(b) is shocked by the causal stories about horrors and disasters reported in the newspaper

(c) wants better evaluation of news before publication

(d) wants to put his foot down on news stories.

6. In the above passage, the phrase 'amounts to a row of beans' means that the news

(a) is weak and often wanting entirely (b) deserves no one's attention

(c) should travel the wires (d) is junk dressed up as real news

III. Grammar

7. Fill in the blank with the correct form of the verb given in the bracket

Everyday last week my aunt _____ a plate (break)

(a) breaks (b) broke

(c) is breaking (d) had broken

8. The following sentence has a grammatical error. Choose the part that is erroneous (A,B,C,D)

The authorities asked us (A)/ to finish at least (B) / four fifth of the work(C)/ as soon as possible (D)

(a) A (b) B (c) C (D) D

9. Choose the passive form of the following sentence.

This news alarmed us.

(a) We were alarmed by this news (b) We are alarmed at this news

(a) We were alarmed at this news (d) We are alarmed by this news

10. In the following sentence a part is underlined, below are given four alternatives (A,B,C,D) which will improve the sentence grammatically. Choose the correct alternative

If I had enough money, I will buy a new car.

(a) will be buying (b) would buy

(c) would have bought (d) will have bought

Maths and Aptitude (20M)

11. If $p \times q = p + q + \frac{p}{q}$, then the value of 8×2 is ?

(a) 6 (b) 10 (c) 14 (d) 16

12. The value of $\left(1 + \frac{1}{x}\right)\left(1 + \frac{1}{x+1}\right)\left(1 + \frac{1}{x+2}\right)\left(1 + \frac{1}{x+3}\right)$ is ?

(a) $1 + \frac{1}{x+4}$ (b) $x + 4$ (c) $\frac{1}{x}$ (d) $\frac{x+4}{x}$

13. If $\frac{a}{b} = \frac{2}{3}$ and $\frac{b}{c} = \frac{4}{5}$, then the ratio $\frac{a+b}{b+c}$ equal to ?
 (a) $\frac{20}{27}$ (b) $\frac{27}{20}$ (c) $\frac{6}{8}$ (d) $\frac{8}{6}$
14. If $\frac{2a+b}{a+4b} = 3$, then find the value of $\frac{a+b}{a+2b} = ?$
 (a) $\frac{5}{9}$ (b) $\frac{2}{7}$ (c) $\frac{10}{9}$ (d) $\frac{10}{7}$
15. The sum of two numbers is 9 and the sum of their squares are 41. The numbers are
 (a) 7, 2 (b) 6, 3 (c) 5, 4 (d) 1, 8
16. $1397 \times 1397 = ?$
 (a) 1951609 (b) 1981709 (c) 18362619 (d) 2031719
17. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
 (a) 4 years (b) 8 years (c) 10 years (d) None of these
18. If $a = 0.1039$, then the value of $\sqrt{4a^2 - 4a + 1} + 3a$ is
 (a) 0.1039 (b) 0.2078 (c) 1.1039 (d) 2.1039
19. If $x = \frac{\sqrt{3}+1}{\sqrt{3}-1}$ and $y = \frac{\sqrt{3}-1}{\sqrt{3}+1}$, then the value of (x^2+y^2) is:
 (a) 10 (b) 13 (c) 14 (d) 15
20. 16, 33, 65, 131, 261, (...)
 (a) 523 (b) 521 (c) 613 (d) 721

GK & Current Affairs (10M)

21. Who is the current President of the United States?
 (a) Donald Trump (b) Joe Biden
 (c) Kamala Harris (d) Bernie Sanders
22. Which country hosted the 2024 Summer Olympics?
 (a) Japan (b) Brazil
 (c) France (d) Australia
23. Which film won the Best Picture Oscar in 2024?
 (a) Avatar: The Way of Water (b) Oppenheimer
 (c) The Fabelmans (d) Dune
24. Who is the 50th Chief Justice of India?
 (a) S.A. Bobde (b) Ranjan Gogoi
 (c) D.Y. Chandrachud (d) N.V. Ramana

25. Which planet is known as the Red Planet?
(a) Earth (b) Venus
(c) Mars (d) Jupiter

Social (20M)

26. Which one of the following movements started by Vinobha Bhave, is known as the Blood-less revolution?
(a) Padyatra Movements (b) Bhoodan-Gramdan Movement
(c) Shramdan Movement (d) Godan movement
27. Which of the following is helpful in inventing new hybrid varieties of seeds?
(a) Green revolution (b) Genetic Engineering
(c) White revolution (d) Scientific research
28. The Habsburg Empire consisted of regions
(a) Italian-speaking provinces of Lombardy and Venetia
(b) The Alpine regions – the Tyrol, Austria and the Sudetenland
(c) All the above
(d) None of the above
29. Which among the following countries were consider as Axis Power during the Second World War?
(a) Nazi Germany, Japan, Italy.
(b) Britain, Germany, Russia.
(c) France, Germany, Italy.
(d) Britain, France, Russia and the US.
30. Which one comes under the Union List in India?
(a) Police (b) Agriculture (c) Banking (d) Trade
31. Communalism refers to a division based on
(a) Religion (b) Caste
(c) Gender (d) Socio-economic status
32. Total income of the country divided by its total population is known as: ‘
(a) Capital Income (b) National Income
(c) Per capita income (d) GDP
33. NREGA (National Rural Employment Guarantee Act of 2005) has guaranteed days of employment in a year in many districts of India. What are the correct number of days?
(a) 200 days (b) 100 days (c) 30 days (d) 60 days
34. The wind blowing in the northern plains in summers in known as:
(a) Kaal Baisakhi (b) Loo

2. How would your friends describe you?

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3. According to you, what personal characteristics are necessary for success? How do you define success?

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4. Who had the most influence / role model in your life. What are your goals in life.

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