Knowledge is Power

Don't Miss the Opportunity to Appear

SAMPLE TEST PAPER

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A Specially Designed Initiative at National Level to
Encourage Youth of our community

Question 1

Lumber: Bear :: Waddle :
   a) Parrot   b) Pigeon   c) Goose   d) Hawk

Key: C

Question 2

What type of device is a joystick?
   a) Input   b) Output   c) Memory   d) Processor

Key: A

Question 3

GUI stands for
 a) Gaming user interface   b) Graphical user interface
c) Graphical user interaction   d) Graphical user information

Key: B

Question 4

How many triangles are there in the given figure?

 a) 13   b) 24   c) 22   d) 25

Key: B

Question 5

If × is replaced with ÷, ÷ is replaced with +, + is replaced with -, and - is replaced with ×, then what will be the value of the following expression?

45 + 0.2 - 120 ÷ 240 × 80

a) 38   b) 32
c) 24   d) 26

Key: C

Question 6

Founder of scientific logic is
a) Plato   b) Aristotle   c) Pythogoras   d) Heraclitus

Key: B

Question 7

A girl walks 12 kms south from her house, turns left and walks 26 kms, again turns left and walks 37 kms. Again she turns right and walks 6 kms to reach her office. In which direction is the office of the girl from her house?
a) South-East   b) South   c) North-East   d) South-west

Key: C

Question 8

Find the correct option that fits in the series and mark it as your answer.
ACF, EGJ, IKN, _____QSV, UWZ

a) OQT   b) MOR   c) QSV   d) NPS

Key: B

Question 9

If the word HEART is written as SQPMZ, then EARTH can be written as
a) QPMSZ   b) QPMZS   c) QMPSZ   d) QMPZS

Key: B

Question 10

Identify the correct sequence of mass media
A) Entertainment   B) Information
C) Transformation of culture   D) Social integration
E) Education

a) A, C, D, E, B   b) B, E, A, C, D   c) B, C, E, D, A   d) C, D, E, A, B

Question 11

He works hard lest he ____ fail.
   a) Should   b) Must   c) Have to

Key: A

Question 12

There____ 60 students in our class.
   a) Is   b) Are   c) Were

Key: B

Question 13

It is raining cats & dogs. {Identify the figure of speech}
   a) Alliteration   b) Simile   c) Metaphor

Key: C

Question 14

In nominative case for a person what words are used:
   a) Who   b) Whom   c) Whose

Key: B

Question 15

Which of the following is a synonym for "Eloquent"?

a) Fluent   b) Awkward   c) Mute   d) Clumsy

Key: A

Question 16

Do you study daily?
   a) Interrogative sentence   b) Exclamatory sentence
   c) Passive Sentence

Key: A

Question 17

A paper written by hand
   a) Manuscript   b) Story board   c) Play writing

Key: A

Question 18

A period of 2 weeks
   a) Weekday   b) Fortnight   c) Tonight

Key: B

Question 19

He has forgotten _____ of the details.
   a) Every   b) Some   c) Many

Key: B

Question 20

Choose the correct statement with correct form
   a) Some of the files seem to be missing.
   b) Some files is missing
   c) Some files seems to be missing

Key: A

Question 21

If the LCM and HCF of two numbers is 2 and (1820 + x) respectively and the product of the two numbers is 3648, then find the value of x
   a) 6   b) 4   c) 8   d) 5

Key: C

Question 22

α and β be the roots of a quadratic polynomial where $\alpha = \beta$. Also $(\alpha + \beta)^2 = 36$. Find the quadratic polynomial.
   a) $x^2 - 6x^2 + 36$ b) $x^2 - 6x^2 - 9$ c) $x^2 + 6x^2 + 36$ d) $x^2 - 6x^2 + 9$

Key: A

Question 23

Solve the following pair of linear equations and find the value of x and y.

$$\frac{2}{x} + \frac{3}{y} = 3; \quad \frac{1}{x} - \frac{3}{y} = 6$$

a) $x = \frac{2}{3}$, $y = 1$ b) $x = -1$, $y = \frac{2}{3}$ c) $x = \frac{1}{3}$, $y = -1$ d) $x = -1$, $y = \frac{1}{3}$

Key: B

Question 24

The roots of the quadratic equation $3x^2 - kx + 3 = 0$ are real and equal. Find the value of k

a) 6   b) -6   c) ±6   d) not defined

Key: B

Question 25

If t_1, s_5, s_6 of an A.P. are 2, -20, -33 respectively then find the value of d (common difference)

a) 13   b) -13   c) -3   d) 3

Key: B

Question 26

$\triangle ABC \sim \triangle DEF$ and $\frac{AC}{DF} = \frac{7}{5}$. If the length of sides AB and DE are (x + z) and 10 respectively, then find the value of x

a) 12   b) 16   c) 14   d) 18

Key: A

Question 27

If the distance of the point (x, -x) where x > 0 from the origin is 2 units, then find the value of x

a) 4   b) 2   c) $\sqrt{2}$ d) $2\sqrt{2}$

Key: B

Question 28

The value of $\frac{\sin \theta}{\cos \theta} = \frac{1}{y}$ and $\theta = 30°$. Find the value of y

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

Key: B

Question 29

Which of these is a quadratic equation?

a) $\left(x + \dfrac{1}{x}\right)^2 = 3$

b) $2(x^4 - 3) = (x^2 - 3)^2$

c) $(x^2 + 3)^2 = x^2(x^2 - 3)$

d) $(9 - x)^3 = (x + 2)(x + 7)$

Key: B

Question 30

If $\sin^2 \theta + \tan^2 \theta = 3$, then the value of $\sec^2 \theta$ is

a) $3 - \cos^2 \theta$ b) $3 + \cos^2 \theta$ c) $1 + \cot^2 \theta$ d) $1 - \cot^2 \theta$

Key: C

Question 31

Metal x turns green when left is air, and turns black when heated in air. Metal x is what?

a) zinc   b) iron   c) copper   d) aluminium

Key: C

Question 32

The chemical used in black and white photograph is

a) bromide   b) silver chloride   c) silver bromide   d) chloride

Key: C

Question 33

……. types of medicine is used for treating indigestion.

a) antacid   b) antiseptic   c) analgesic   d) antibiotic

Key: A

Question 34

The chemical formula of caustic potash is ……….

a) NaOH   b) NH_1OH c) $Ca(OH)_2$ d) KOH

Key: D

Question 35

When calcium is burned, the color of flame is ....
    a) Brick red   b) yellow   c) white   d) green

Key: A

Question 36

.......................helps in blood clotting during injury
    a) lymph   b) R.B.C.   c) platelets   d) WBC

Key: C

Question 37

............................control the opening and closing of stomata.
    a) nucleus   b) guard cell   c) chloroplast   d) Alvedi

Key: B

Question 38

...........is the plant hormone.
    a) Estrogen   b) insulin   c) thyroxine   d) cytokine

Key: D

Question 39

...... type of lens is used to correct presbyopia.
    a) concave   b) bifocal lens   c) bi-concave   d) biconvex

Key: B

Question 40

...........................are light sensitive cells in human eyes
    a) Rod and cones   b) ciliary muscles   c) pupil   d) lens

Key: A