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Scientific Assistant (Polygraphy)

Itemcode : **S31001**

Q1 : From the choices provided, pick the word which is nearly the same meaning as the word below:
EMULATE

(a) Imitate
(b) Modify
(c) Inhabit
(d) Oppose

Itemcode : **S31002**

Q2 : From the choices provided, pick the word which is nearly the same meaning as the word below:
LANGUISHING

(a) Convicted
(b) Suffering
(c) Attempting
(d) Avoiding

Itemcode : **S31003**

Q3 : From the choices provided, pick the word which is nearly the same meaning as the word below:
CORROBORATED

(a) Confirmed
(b) Disproved
(c) Condemned
(d) Seconded

Itemcode : **S31004**

Q4 : From the choices provided, pick the word which is nearly the same meaning as the word below:
NIMBLE

(a) Unrhythmic
(b) Lively
(c) Quickening
(d) Clear

Itemcode : **S31005**

Q5 : From the choices provided, pick the word which is nearly the same meaning as the word below:
OBLIVIOUS

(a) Precarious
(b) Unmindful
(c) Aware
(d) Watchful

Itemcode : **S31006**

Q6 : From the choices provided, pick the word which is closest to the opposite in meaning as the word below:
OMINOUS

(a) Pleasant
(b) Encouraging
(c) Auspicious
(d) Favourable

Itemcode : **S31007**

Q7 : From the choices provided, pick the word which is closest to the opposite in meaning as the word below:
OBSCURITY

(a) Clarity
(b) Precision
(c) Definiteness
(d) Specificity

Itemcode : **S31008**

Q8 : From the choices provided, pick the word which is closest to the opposite in meaning as the word below:

ABHOR

(a) Admire
(b) Respect
(c) Applaud
(d) Appreciate

Itemcode : **S31009**

Q9 : From the choices provided, pick the word which is closest to the opposite in meaning as the word below:
INCIDENTAL

(a) Intentional
(b) Conventional
(c) Usual
(d) Permissible

Itemcode : **S31010**

Q10 : From the choices provided, pick the word which is closest to the opposite in meaning as the word below:
DILAPIDATED

(a) Neglected
(b) Regenerated
(c) Renovated
(d) Furnished

Itemcode : **S31011**

Q11 : Fill in the Blanks from the choices provided:
Arjun's schooling was not continuous, _____ he read all the books on Indian History.

(a) since
(b) as
(c) thus
(d) none the less

Itemcode : **S31012**

Q12 : Fill in the Blanks from the choices provided:
_____ the Greeks, who considered physical health as part of education, the church considered the human body as something to be ignored.

(a) although
(b) unlike
(c) as
(d) while

Itemcode : **S31013**

Q13 : Fill in the Blanks from the choices provided:
The original song actually had no words _____ did it have a music video.

(a) so
(b) nor
(c) but
(d) either

Itemcode : **S31014**

Q14 : Fill in the Blanks from the choices provided:
_____ activities have the same meaning as free time activities.

(a) sporting
(b) leisure
(c) religious
(d) hobby

Itemcode : **S31015**

Q15 : Fill in the Blanks from the choices provided:
We still have not come _____ with an interesting theme for the advertising campaign.

(a) in
(b) by
(c) out
(d) up

Itemcode : **S31016**

Q16 : Which is the capital of Chile?

(a) San Antonio
(b) Las Condes
(c) Santiago
(d) La Serena

Itemcode : **S31017**

Q17 : When was the Constituent Assembly in India founded?

(a) 1939
(b) 1946
(c) 1945
(d) 1942

Itemcode : **S31018**

Q18 Who is the present Prime Minister of Russia?
:

(a) Vladimir Putin
(b) Dmitry Medvedev
(c) Boris Yeltsin
(d) Mikhail Gorbachev

Itemcode : **S31019**

Q19 Which is the largest Indian State by area?
:

(a) Madhya Pradesh
(b) Maharashtra
(c) Rajasthan
(d) Gujarat

Itemcode : **S31020**

Q20 Which is the largest rice producing State in India?
:

(a) Punjab
(b) Andhra Pradesh
(c) Tamil Nadu
(d) West Bengal

Itemcode : **S31021**

Q21 Which Constitutional Amendment made Education a Fundamental Right?
:

(a) 76th
(b) 86th
(c) 96th
(d) 91st

Itemcode : **S31022**

Q22 Who was the first President of independent India?
:

(a) Zakir Husain
(b) Radhakrishnan
(c) Rajendra Prasad
(d) V.V Giri

Itemcode : **S31023**

Q23 Who is the current speaker of Lok Sabha?
:

(a) Pramod Sawant
(b) Sumitra Mahajan
(c) Meira Kumar
(d) Ravi Ray

Itemcode : **S31024**

Q24 When did the Portuguese first arrive in India?
:

(a) 1498
(b) 1540
(c) 1505
(d) 1530

Itemcode : **S31025**

Q25 What is the height of Mount Everest?
:

(a) 8848 m
(b) 9164 m
(c) 9480 m
(d) 8160 m

Itemcode : **S31026**

Q26 Who discovered oxygen?
:

(a) Lavoisier
(b) Priestley

(c) Dalton
(d) Swinton

Itemcode : **S31027**

Q27 The last Mughal Emperor was?

:

(a) Akbar
(b) Babur
(c) Bahadur Shah
(d) Noor Jahan

Itemcode : **S31028**

Q28 Taj Mahal is on the banks of

:

(a) Tapti
(b) Ganges
(c) Jamuna
(d) Cauvery

Itemcode : **S31029**

Q29 The former name of State Bank of India was?

:

(a) Central Bank of India
(b) United Bank of India
(c) Imperial Bank of India
(d) Peoples Bank of India

Itemcode : **S31030**

Q30 The midday meal scheme was launched in

:

(a) 2001
(b) 1995
(c) 1998
(d) 2004

Itemcode : **S31031**

Q31 The radius of a wire is decreased to one third and its volume remains the same. The new length is how many times the
: original length?

(a) One time
(b) Three times
(c) Six times
(d) Nine times

Itemcode : **S31032**

Q32 If the volume of a sphere is divided by its surface area the result is 27 cm. The radius of the sphere is

:

(a) 81 cm.
(b) 9 cm.
(c) 54 cm.
(d) 36 cm.

Itemcode : **S31033**

Q33 A number exceeds 20% of itself by 40. The number is

:

(a) 50
(b) 60
(c) 80
(d) 320

Itemcode : **S31034**

Q34 The ratio of Vimal's age and Aruna's age is 3:5 and the sum of their ages is 80 years. The ratio of their ages after ten
: years will be

(a) 2:3
(b) 1:2
(c) 3:2
(d) 3:5

Itemcode : **S31035**

Q35 The average age of A and B is 24 years and the average age of B, C and D is 22 years. The sum of the ages of A, B, C and
: D is

(a) 90 years
(b) 96 years
(c) 114 years
(d) Data inadequate

Itemcode : **S31036**

Q36 5% income of A is equal to 15% of income of B and 10% of income of B is equal to 20% of income of C. If income of C is
: Rs. 2000 then total income of A, B and C is

(a) 6000
(b) 18000
(c) 20000
(d) 14000

Itemcode : **S31037**

Q37 An article when sold for Rs. 840 earns a profit which is double the amount of loss when the same article is sold for Rs.
: 600. What is the cost price of the article?

(a) 500
(b) 680
(c) 720
(d) Data inadequate

Itemcode : **S31038**

Q38 The sum of three numbers is 174. The ratio of second number to third number is 9:16 and ratio of first number to third
: number is 1:4. The second number is

(a) 24
(b) 54
(c) 96
(d) 142

Itemcode : **S31039**

Q39 The average of 50 numbers is 38. If two numbers namely 45 and 55 are discarded, the average of the remaining number
: is

(a) 36.5
(b) 37
(c) 37.5
(d) 37.52

Itemcode : **S31040**

Q40 Three years ago the average age of a family of 5 members was 17 years. A boy having being born the average age of the
: family is the same today. The present age of the boy is

(a) 2 years
(b) 2.4 years
(c) 3 years
(d) 1.5 years

Itemcode : **S31041**

Q41 A and B can together finish a job in 20 days. They worked at it for 20 days and then B left. The remaining work was done
: by A alone in 20 more days. A alone can finish the work in

(a) 48 days
(b) 50 days
(c) 54 days
(d) 60 days

Itemcode : **S31042**

Q42 A man running across a bridge at 15 kmph crosses it in 5 minutes. The length of the bridge is
:

(a) 1333.33 m
(b) 1000 m
(c) 7500 m
(d) 1250 m

Itemcode : **S31043**

Q43 If a man can swim downstream at 6 kmph and upstream at 2 kmph, his speed in still water is
:

(a) 4 kmph
(b) 2 kmph
(c) 3 kmph
(d) 2.5 kmph

Itemcode : **S31044**

Q44 Rs. 800 amounts to Rs. 920 in three years at simple interest. If the interest is increased by 3% it would amount to how
: much?

(a) 992
(b) 1056
(c) 1112
(d) 1182

Itemcode : **S31045**

Q45 The three sides of a triangle are 3 cms, 4 cms and 5 cms respectively. The area of the triangle (in sq. cm) is

:

(a) $4\sqrt{2}$
(b) $2\sqrt{3}$
(c) $\sqrt{23}$
(d) 6

Itemcode : **S31046**

Q46 The first polygraph suitable for use in criminal investigation was invented by
:

(a) J.A. Larson
(b) C. Lambroso
(c) W. A. Graph
(d) L.W. Hayes

Itemcode : **S31047**

Q47 _____ measures the structure of the brain by utilising a series of X-rays
:

(a) EEG
(b) CT Scan
(c) MRI Scan
(d) PET

Itemcode : **S31048**

Q48 Bodily sensations such as touch, temperature and pressure register in which brain area?
:

(a) The Occipital lobes
(b) The Parietal lobes
(c) The Temporal lobes
(d) The Portal lobes

Itemcode : **S31049**

Q49 According to Cannon Bard Theory
:

(a) The Thalamus plays a central role in producing emotions
(b) The cerebellum must give the go-ahead for emotions
(c) Activity in the occipital and parietal lobes happens simultaneoulsy to produce emotions
(d) The sympathetic and para-sympathetic nervous systems work in concert

Itemcode : **S31050**

Q50 You are feeling a lot of fear, the brain site most likely involved is
:

(a) The mid brain
(b) The left hemisphere
(c) The right hemisphere
(d) The amygdala

Itemcode : **S31051**

Q51 The chief antidote for test anxiety is
:

(a) Overpreparation
(b) Thought suppression
(c) Regression
(d) None of the above

Itemcode : **S31052**

Q52 Intrinsic motivation occurs when
:

(a) Obligations or approval are factors
(b) There is no obvious external reward for ones behaviour
(c) There are obvious external factors controlling behaviour
(d) Extrinsic motivation is also high

Itemcode : **S31053**

Q53 When a Polygraph operator asks a subject, "Have you ever lied to your parents?" He or she is using
:

(a) A control question
(b) A critical question
(c) Deception
(d) An irrelevant question

Itemcode : **S31054**

Q54 The maintenance of steady states of temperature and blood pressure are examples of
:

(a) Thermostatis
(b) Homeostatis
(c) Intrinsic motivation
(d) Biological rhythm

Q55 The Polygraphs most common error is to

:

(a) Fail to detect persons who can lie without anxiety
(b) Fail to detect persons who are guilty
(c) Identify as guilty persons who are innocent
(d) Identify as innocent persons who are easily aroused

Q56 In both Males and Females, pupil size is related to

:

(a) Attractiveness to others
(b) Perceived intelligence
(c) Perceived locus of control
(d) Desirability as a leader

Q57 Moods

:

(a) Are the most extreme forms of various emotions
(b) Are subtle emotional undercurrents
(c) Reflect base physiological changes
(d) Reflect only positive emotions

Q58 A 'Circadian Rhythm' refers to a cycle

:

(a) of sexual receptivity caused by hormone cycles
(b) of bodily activity approximately 24 hours in length
(c) of emotional arousal
(d) during which various bodily systems are in phase

Q59 A part of the neuron that specialises in receiving messages from other neurons is the

:

(a) Axon
(b) Myelin
(c) Axon terminal
(d) Dendrite

Q60 Emotional responses to a traumatic event are most directly under the control of the

:

(a) Somatic Nervous System
(b) Central Nervous System
(c) Autonomic Nervous System
(d) Cerebral Cortex