

10. Select the Antonyms of the word

Abnegation

- A) Repudiation
- B) Relinquishment
- C) Espousal
- D) Abdicate

11. Select the related word from the given options

Audacity : Fortitude :: Enviousness : ?

- A) Spite
- B) Altruism
- C) Accord
- D) Adoration

12. Select the related word from the given options:

Victory : Triumph :: Fear : ?

- A) Bravery
- B) Fortune
- C) Wisdom
- D) Trepidation

13. Which sentence expresses the correct meaning of the given idiom:

A damp squib

- A) Strong and sudden success that surpasses all expectations.
- B) Challenging task that requires intense effort to complete.
- C) Something that is not exciting or effective as expected.
- D) Dangerous situation that leads to unexpected trouble.

14. Which sentence expresses the correct meaning of the given idiom:

Take it with a grain of salt

- A) To accept something as true without questioning it.
- B) To approach something with skepticism
- C) To disregard something completely and not pay attention to it.
- D) To embrace an idea or suggestion enthusiastically without reservation.

22. Which language is primarily used for delivering judgments and legal documentation in the Supreme Court of India?
- A) English
 B) Hindi
 C) All 22 scheduled languages
 D) Language that is mother tongue of petitioner.

23. Match the International Organizations with their respective Headquarters:

International Organizations	Headquarters
i) United Nations Organization (UNO)	1) Kathmandu, Nepal
ii) World Health Organization (WHO)	2) Geneva, Switzerland
iii) United Nations Education Scientific and Cultural Organization (UNESCO)	3) New York, US
iv) South Asian Association for Regional Cooperation (SAARC)	4) Paris, France

Choose the correct answer:

- A) i-4, ii-1, iii-2, iv-3
 B) i-2, ii-1, iii-3, iv-4
 C) i-3, ii-2, iii-4, iv-1
 D) i-4, ii-3, iii-1, iv-2
24. In which year did the first Indian receive a Nobel Prize and in which field was it Awarded?
- A) 1901, Medicine
 B) 1913, Literature
 C) 1928, Physics
 D) 1930, Physics

25. Match the key Awardees of Rashtriya Vigyan Puraskar with their corresponding Achievements:

Awardees of Rashtriya Vigyan Puraskar	Achievement
i) G Padmanabhan	1) Formation and evolution of star clusters and galaxies
ii) Chandrayaan-3 Team	2) Work in the field of biological sciences, particularly on malaria parasites
iii) Annapurni Subramaniam	3) Determination of carbon capture technologies
iv) Vivek Polshettiwar	4) Successful landing India's first spacecraft on the Moon in 2023

Choose the correct answer:

- A) i-4, ii-1, iii-2, iv-3
 B) i-2, ii-4, iii-1, iv-3
 C) i-3, ii-4, iii-2, iv-1
 D) i-4, ii-3, iii-1, iv-2

(Set - A)

39. In MS-Word, which utility enables to send the same letter to multiple participants?

- A) Macros
- B) Micros
- C) Mail merge
- D) Mailer

40. Which of the following is not an application software?

- A) Photoshop
- B) WinWord XP
- C) Page Maker
- D) Windows NT

41. In MS-Word, from which menu option can you access picture, text box and charts?

- A) Insert
- B) File
- C) View
- D) Edit

42. What is the full form of internet?

- A) International Network
- B) Interconnected Network
- C) Intercontinental Network
- D) Internal Network

51. The city of Jammu got its name from which King?

- ~~A) Jambu Lochan~~
- B) Agnigir
- C) Babru-Vahan
- D) Jog Rai

52. In which year, the first Legislature of Jammu and Kashmir was established:

- ~~A) 1819 AD~~
- B) 1890 AD
- C) 1934 AD
- D) 1970 AD

53. Simplify : $1 - [5 - \{2 + (-5 + 6 - 2) 2\}]$

- ~~A) 2~~
- B) -4
- C) 0
- D) -2

54. In a hockey championship, there are 153 matches played. Every two-team played one match with each other. The number of teams participating in the championship is:

- A) 16
- ~~B) 17~~
- C) 18
- D) 19

55. The sum of four consecutive two-digit odd numbers, when divided by 10, becomes a perfect square. Which of the following can possibly be one of these four numbers?

- ~~A) 21~~
- B) 41
- C) 67
- D) 73

56. F2, —, D8, C16, B32 What number should fill the blank?

- A) A16
- B) G4
- ~~C) E4~~
- D) E3

6. Choose the correct homophone to complete the sentence:

During the festival, the groups set up a _____ to rest and socialize, while enjoying their favorite _____ beer under the stars.

- A) lager, lagar
- B) lager, laager
- C) lager, laagar
- D) laager, lager

7. In this question, the sentence is broken into four parts. Find out the error part in the sentence from the given options and mark your answer.

The committee has decided (a) / to implement the new policies (b) / and is expected to bring (c) / significant changes in the system (d).

- A) The committee has decided
- B) to implement the new policies
- C) and is expected to bring
- D) significant changes in the system

8. Identify the sentence with correct punctuation marks.

- A) "I will meet you at the park," he said. "Make sure to bring a jacket, as it might be chilly."
- B) "I will meet you at the park," he said. "Make sure to bring a jacket as it might be chilly."
- C) "I will meet you at the park" he said. "Make sure to bring a jacket as it might be chilly."
- D) "I will meet you at the park," he said. Make sure to bring a jacket; as it might be chilly.

9. Select the Synonyms of the word

Cajole

- A) Wheedle
- B) Dissuade
- C) Pester
- D) Coerce

15. Fill in the blank with a suitable phrasal verb in the sentence below.
She was feeling unwell, but after some rest, she managed to _____.

- A) come around
- B) give up
- C) put off
- D) run out

16. Which of the following options correctly matches the inventor with their important invention and discovery

Name of Inventor

- i) Karl Landsteiner
- ii) Theodore Maiman
- iii) Hubert Cecil Booth
- iv) Julius Robert Oppenheimer

Important Invention or Discovery

- 1) Laser
- 2) Atom Bomb
- 3) Blood Group
- 4) Vacuum Cleaner

Options:

- A) i-1, ii-2, iii-3, iv-4
- B) i-3, ii-1, iii-4, iv-2
- C) i-1, ii-2, iii-4, iv-3
- D) i-4, ii-2, iii-1, iv-3

17. Sakshi Malik became the first Indian female wrestler to win an Olympic medal. She won which medal and in which category?

- A) Bronze medal in the 58 kg category
- B) Bronze medal in the 53 kg category
- C) Silver medal in the 53 kg category
- D) Bronze medal in the 63 kg category

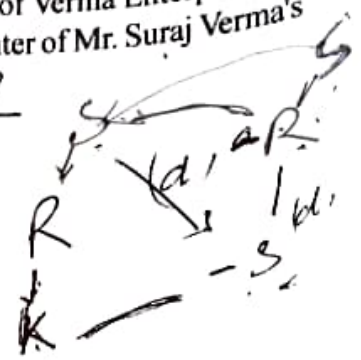
18. Arrange the following Indian Newspaper in the chronological order of their establishment years.

- 1. The Indian Express
- 2. The Hindu
- 3. The Economic Times
- 4. Hindustan Times

- A) 1, 3, 2, 4
- B) 2, 4, 1, 3
- C) 1, 2, 3, 4
- D) 3, 1, 2, 4

34. Mr. Kunal, who is the founder of Verma Enterprises, is the son of Mr. Ravi Verma and grandson of Mr. Suraj Verma. The current Managing Director of Verma Enterprises is Ms. Ritu, who is the daughter of Sangeeta. Sangeeta is the daughter of Mr. Suraj Verma's wife. What is the relationship between Mr. Kunal and Ms. Ritu?

- A) Cousin
- B) Nephew
- C) Brother
- D) Uncle



35. Which of the following is the brain of the computer?

- A) Central Processing Unit
- B) Memory
- C) Arithmetic and Logic unit
- D) Control unit

36. The deleted e-mails can be found in which folder?

- A) inbox
- B) trash
- C) draft
- D) sent

37. Home key is used for -

- A) Moving the cursor to the beginning of the document
- B) Moving the cursor to the beginning of the paragraph
- C) Moving the cursor to the beginning of the screen
- D) Moving the cursor to the beginning of the line

38. Autocorrect was initially designed to replace

- A) Repeated words
- B) Grammatically incorrect words
- C) Misspelled words
- D) Acronyms

29. Alloy X consists of gold and silver in the ratio of 3:5, while Alloy Y consists of gold and silver in the ratio of 5:7. If $\frac{2}{3}$ volume of Alloy X and $\frac{1}{3}$ volume of Alloy Y are mixed to form a new alloy Z, what will be the ratio of gold to silver in alloy Z?

- A) 11:15
~~B) 7:11~~
 C) 9:10
 D) 11:17

Handwritten solution for Q29:

X	3	5	→	$\frac{2}{3}$	2 : 3
Y	5	7	→	$\frac{1}{3}$	1 : 5

2 = 8 : 12

30. A bus travels $\frac{3}{4}$ of its usual distance in $\frac{2}{3}$ the usual time. What percentage change in speed of bus has occurred?

- A) 12.5% decrease
 B) 12.5% increase
 C) 15% increase
 D) 15% decrease

31. If $x = 2.45$ and $y = 1.85$, then what is the value of $x^2 - 2xy + y^2$?

- ~~A) 0.36~~
 B) 0.45
 C) 0.67
 D) 0.89

Handwritten calculation for Q31:

$$(2.45)^2 - 2(2.45)(1.85) + (1.85)^2$$

$$4.45 - 4.45 + 1.85$$

OR

32. What should come in the place of (?) in the given series?

3, 5, 8, 10, 15, 15, ?, 20

- ~~A) 18~~
 B) 24
 C) 30
 D) 32

Handwritten sequence: 2 3 2 5 5

33. Choose the missing terms in the given alphabetical series.

OQL, QSN, SUP, ?

- A) LNK
 B) TVS
~~C) UWR~~
 D) WYU

19. Match the following famous books with their authors.

Famous Books

- i) Geetanjali
- ii) Akbar-Nama
- iii) Abhigyan Shakuntalam
- iv) Discovery of India

Authors

- 1) Abul Fazal
- 2) Kalidas
- 3) Pandit Jawaharlal Nehru
- 4) Rabindra Nath Tagore

Choose the correct answer:

- A) i-4, ii-1, iii-2, iv-3
- B) i-2, ii-3, iii-1, iv-4
- C) i-3, ii-2, iii-4, iv-1
- D) i-4, ii-1, iii-3, iv-2

20. Which of the following statements about the Mother Teresa is/are correct?

- 1. Mother Teresa, a Catholic nun who founded the Missionaries of Charity to serve the poorest and most neglected individuals in society.
- 2. She received more than 120 awards and accolades, some during her lifetime and others posthumously.
- 3. She was honored with the Padma Shri and the Ramon Magsaysay Peace Prize in 1962.
- 4. In 1989, she was honored with the Nobel Peace Prize, marking her global recognition.

Choose the correct answer:

- A) 3 and 4
- B) 1, 2 and 3
- C) 2, 3 and 4
- D) 1, 2, 3 and 4

21. Which of the following statements about Ajanta Caves is/are correct?

- 1. Ajanta caves are series of rock-cut caves on Waghora River near Aurangabad in Maharashtra
- 2. These caves are located in the Sahyadri ranges on Eastern Ghats.
- 3. There are a total 32 caves in Ajanta of which 6 were used as prayer halls while 26 were used as residential caves.
- 4. Ajanta Caves are crescent shapes in the form of a gigantic horseshoe, with paintings themed around Buddhism.

Choose the correct answer:

- A) 1 and 4
- B) 1, 2 and 4
- C) 2, 3 and 4
- D) 1, 2, 3 and 4

43. Select the correct match:

- | | |
|---|-------------------|
| i) The processing time of this OS is consistent and predictable | 1. Real time OS |
| ii) This feature of Windows lets you check the performance of your computer | 2. Symbian |
| iii) This OS provides a GUI to the users | 3. Task manager |
| iv) This OS is specifically designed for mobile phones | 4. Interactive OS |

Choose the correct answer

- A) i-4, ii-2, iii-1, iv-3
B) i-3, ii-4, iii-1, iv-2
C) i-2, ii-3, iii-4, iv-1
D) i-1, ii-3, iii-4, iv-2

44. Consider four numbers as given below:

- i) 100 measured in binary scale
ii) 100 measured in octal scale
iii) 100 measured in decimal scale
iv) 100 measured in hexadecimal scale

Select the correct ascending of above numbers.

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

45. Who founded the association 'Naujawan Bharat Sabha' to help foster revolution against the British Raj by gathering together worker and peasant youth in 1926?

- A) Surya Sen
B) Bhagat Singh
C) Chandra Shekhar Azad
D) V.D. Savarkar

46. Pradhan Mantri Ujjwala Yojna was launched in:

- A) May 2016
B) May 2014
C) July 2017
D) July 2018

66. The digitization process i.e. the digital image has M rows and N columns, requires decisions about values for M , N , and for the number, L , of gray levels allowed for each pixel.

The value M and N have to be:

- A) M and N have to be positive integer
 - B) M and N have to be negative integer
 - C) M has to be negative and N has to be positive integer
 - D) M has to be positive and N has to be negative integer
67. Mechanical digitizers in context of photography are referred to
- A) densitometer
 - B) micrometer
 - C) microdensity
 - D) microdensitometer
68. Your negative is very weak with very little shadow detail. Why?
- A) Under exposure and under development
 - B) Under exposure and over development
 - C) Over exposure and over development
 - D) None of these
69. The laws of reflection hold good for
- A) Plane mirror only
 - B) Concave mirror only
 - C) Convex mirror only
 - D) All mirror irrespective of their shape
70. Which part of the camera controls how long light is exposed to the digital sensor/film?
- A) The shutter
 - B) The aperture
 - C) The digital sensor
 - D) The hyper focal distance

(Set - A)

47. Who is the current Secretary General of the SAARC?

- A) Sheel Kant Sharma
- ~~B) Amjad Hussain~~
- C) Arjun Bahadur Thapa
- D) Golam Sarwar

48. Who is responsible for establishing and maintain astound and efficient accounting and financial reporting system in India?

- ~~A) The Controller General of Accounts~~
- B) NITI Ayog
- C) RBI
- D) SEBI

49. Match the following:

Column - I

- i) Founder of Dogra Dynasty
- ii) Last ruler of Dev Dynasty
- iii) Chashme Sahi garden was build
- iv) Year of Treaty of Lahore

Column - II

- 1) 1846
- 2) 1632
- 3) Jit Singh
- 4) Gulab Singh

Choose the correct answer

- A) i-4, ii-3, iii-1, iv-2
- B) i-4, ii-3, iii-2, iv-1
- ~~C) i-3, ii-4, iii-2, iv-1~~
- D) i-3, ii-4, iii-1, iv-2

50. Consider the following statements:

Assertion (A): Rajatarangini presents a written account of the history of Jammu.

Reason (R): Historians seek lot of relevant information from Rajatarangini as it is a valuable source of information on the history of Kashmir.

- A) A is true but R is false
- B) A is false but R is true
- C) Both A and R are true and R is the correct explanation of A
- ~~D) Both A and R are true but R is not the correct explanation of A~~

(Set - A)

57. Given below are two premises (1 and 2). Four conclusions are drawn from them. Select the code that states validly drawn conclusion(s) (taking the premises individually or jointly).

Premises:

- 1) Most of the dancers are physically fit.
- 2) Most of the singers are dancers.

Conclusions:

- (I) Most of the singers are physically fit.
- (II) Most of the dancers are singers.
- (III) Most of the physically fit persons are dancers.
- (IV) Most of the physically fit persons are singers.

Codes:

- A) (I) and (II)
- B) (II) and (III)
- C) (III) and (IV)
- D) (IV) and (I)

58. In a certain code language, BOARD is written as EQBNC. How will be the word CLIMB be written in that language?

- A) CLJKD
- B) DKJLF
- C) DNHMB
- D) ~~FNJRO~~

59. A family consists of grandparents, parents and three grandchildren. The average age of grandparents is 67 years that of the parents is 35 years and that of the grandchildren is 6 years. What is the average age of the family?

- A) $28\frac{4}{7}$ years
- B) $31\frac{5}{7}$ years
- C) $32\frac{1}{7}$ years
- D) $26\frac{3}{7}$ years

(Set - A)

60. Two railway tickets from city A to B and three tickets from city A to C cost Rs. 177. Three tickets from city A to B and two tickets from city A to C cost Rs. 173. The fare for city B from city A will be Rs.

- A) 25
- B) 27
- C) 30
- D) 33

$$\begin{array}{l} 2 \cdot A - B - C = 177 \\ 3 \cdot A - B - C = 173 \end{array}$$
$$\begin{array}{l} 3 \cdot A - B - C = 173 \\ 2 \cdot A - B - C = 177 \end{array}$$

61. Lenses are usually coated with

- A) Sodium fluoride
- B) Zinc fluoride
- C) Magnesium fluoride
- D) Nickle fluoride

62. Your print needs 8 second at $f5.6$ (in a diffuser enlarger). You decide to use $f11$, what is your new exposure?

- A) 16 seconds
- B) 32 seconds
- C) 8 seconds
- D) 24 seconds

63. The inability of a lens to form a white image of a white object is known as _____

- A) Spherical Aberration
- B) Chromatic Aberration
- C) Monochromatic Aberration
- D) Coma

64. Key light in context of photography refers to?

- A) back light
- B) soft light
- C) principal illuminator
- D) filter

65. The two main colour image processing categories are?

- A) Pseudo-color and Multi-color processing
- B) Half-color and pseudo-color processing
- C) Full-color and pseudo-color processing
- D) Half-color and full-color processing

89. Match the following:

Column - I

- i) An image editing software
- ii) Fill-in-Light
- iii) Chiaroscuro
- iv) IRIS out

Column - II

- 1) A light and shade effect
- 2) Photoshop
- 3) Transition from one to another frame
- 4) Additional light to soften

Choose the correct answer:

- A) i - 4, ii - 1, iii - 2, iv - 3
- ~~B) i - 2, ii - 4, iii - 3, iv - 1~~
- C) i - 2, ii - 4, iii - 1, iv - 3
- D) i - 3, ii - 1, iii - 2, iv - 4

90. Which lens is used to correct astigmatism?

- A) Cylindrical lens
- B) Biconvex lens
- C) Convex lens
- D) Concave lens

91. Which f-stops allows less light?

- A) f 1.2
- B) f 1.8
- C) f 22
- D) f 32

92. SLR in context of photography means?

- A) Semi Lens Reflector
- B) Single Lens Range
- ~~C) Single Lens Reflex~~
- D) Specification of Lens Range

93. The amount of light or darkness on a photograph is known as

- A) Exposure
- B) Shutter Speed
- C) Focus
- ~~D) Contrast~~

94. The amount of light passing through a lens is defined by

- A) Shutter speed
- B) Exposure
- C) Aperture
- D) ISO

(Set - A)

71. Parallax is _____
- A) A unit of measurement for photographs
 - B) A type of camera lens
 - C) The process of capturing images using a drone
 - D) The difference in apparent position of an object when viewed from different angles.
72. Which of the following is **NOT TRUE** about digital cameras?
- A) Uses film
 - ~~B) Uses batteries~~
 - C) Stores photos on a memory card
 - D) Has a shutter
73. Which of the following is the first and foremost step in Image Processing?
- ~~A) Segmentation~~
 - ~~B) Image acquisition~~
 - C) Image enhancement
 - D) Image restoration
74. Dividing the frame into 9 equal segments with 2 vertical and 2 horizontal lines suggests which composition rule?
- A) Golden ratio
 - B) Rule of thirds
 - C) Leading lines
 - D) Rule of odds
75. Which colour mode is used for digital Image?
- A) CMYK
 - ~~B) HSB~~
 - C) PANTONE
 - D) RGB

[P.T.O.]

83. What is dodging in photography?
- A) Making the exposure lighter during printing or editing
 - B) Making the exposure darker during printing or editing
 - C) Changing the ISO.
 - D) Balancing the light meter.
84. What is the aeroplane flying height to obtain the average scale of the photograph equal to $1/7200$? (Ground surface elevations vary from 160 m to 430 m and focal length of the camera lens is 153 mm)
- A) 1145 m
 - B) 1397 m
 - C) 1021 m
 - D) 1284 m
85. Infrared photography is based on which of the following principle?
- A) Infrareds are more coherent than visible radiation
 - B) The peak maximum radiation varies with the temperature emitting IR
 - C) The dispersion of infrared is larger than that for visible radiation.
 - D) The Doppler effect of infrared is larger than that for visible radiation.
86. Which shutter speed lets in more light?
- A) 1/30
 - B) 1/60
 - C) 1/400
 - D) 1/1000
87. CCD is a
- A) Sensor
 - B) Lens
 - C) Flash
 - D) External light source
88. George Eastman introduced _____ in August 1888.
- A) Roll film camera
 - B) Polaroid Camera
 - C) Exposure meter
 - D) Colour film

95. What is the unit of measurement for light in photography
- A) Candela
 - B) Kelvin
 - C) Lumen
 - D) Lux
96. A Digital Image is made up of thousands of
- A) Bitmap
 - B) Pixels
 - C) Resolution
 - D) Vector
97. What is Ambient light?
- A) Artificial light
 - B) Backlight
 - C) Available light at surrounding
 - D) Unused light
98. Who coined the term 'photography'?
- A) Fox Talbot
 - B) Sir John Herschel
 - C) Joseph
 - D) Daguerre
99. Daylight colour film is balanced for light at
- A) 3200 Kelvin
 - B) 3500 Kelvin
 - C) 5400 Kelvin
 - D) 4500 Kelvin
100. Making a sensible use of Advertising Photography, Coca-Cola has an easily identified logo (its name written in a flowing script) and is usually packaged in a red can or its famously curvy bottle. What do these elements combine to form?
- A) Brand image
 - B) Brand personality
 - C) Brand equality
 - D) Brand identity

76. A long shot is:
- A) The subject becomes the primary focus within the shot, but only a small portion of the background is visible.
 - B) The subject remains dominated by the much larger background area
 - C) The subject fills the screen and is clearly the central focus of the shot.
 - D) None of these
77. Aperture/f-stop affects what part(s) of a photo?
- A) Exposure
 - B) Depth of field
 - C) Both A and B
 - D) Neither A nor B
78. Digitizing the coordinate values is called
- A) radiance
 - B) illuminance
 - C) sampling
 - D) quantization
79. What does the term Camera Obscura mean?
- A) Projector
 - B) Dark room
 - C) Light source
 - D) Aperture
80. Changing the overall sensitivity of the image is:
- A) illumination
 - B) brightness
 - C) brightness adaption
 - D) illumination adaption
81. What is Histogram Matching also called as?
- A) Histogram Equalisation
 - B) Histogram Specification
 - C) Histogram linearisation
 - D) None of the Mentioned
82. Which type of the following projections is used in aerial photographs?
- A) Parallel
 - B) Orthogonal
 - C) Central
 - D) None of the above

1. Fill in the blank using suitable articles. When no article is required, select no article among the given options.
Sarah was excited to visit ___ Eiffel Tower during her trip to ___ Paris.
- A) No article, No article
B) the, No article
C) the, the
D) No article, the
2. Fill in the blank using suitable articles. When no article is required, select no article among the given options.
Eating ___ orange and ___ banana together may cause digestive issues because they have different digestion rates.
- A) the, the
~~B) an, a~~
C) an, No article
D) the, No article
3. Pick out the subordinate clause in the below sentence.
If the customer crosses the line and becomes abusive, assertively ask the customer to stop.
- A) If the customer crosses the line
B) The customer crosses the line and becomes abusive
C) If the customer crosses the line and becomes abusive
~~D) assertively ask the customer to stop~~
4. The indefinite pronoun in the below sentence is
Anyone can join the club as long as they are interested in learning new skills
- A) Anyone
~~B) as long as~~
C) they
D) new
5. Choose the correct homophone to complete the sentence.
The ___ predicted a future where a great heat would ___ the land, leaving it dry and ___.
- A) sear, seer, sere
B) seer, sear, sere
~~C) sere, sear, seer~~
D) seer, sere, sear