

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

SERIES : I

QUESTION BOOKLET

**Subjects : General English, General Knowledge, General Mathematics,
General Aptitude, Reasoning and Forensic Science &
Crime Scene Management**

Full Marks : 300

Time Allowed : 3 Hours

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This Booklet contains 150 questions to be answered in a separate OMR Answer Sheet using Black Ballpoint Pen in the following two Parts :

**Part—A : General English, General Knowledge,
General Mathematics, General Aptitude, Reasoning : 50 questions**

Part—B : Forensic Science & Crime Scene Management : 100 questions

2. All questions are compulsory.

3. You will be supplied the Answer Sheet separately by the Invigilator. You must complete the details of particulars asked for.

4. Answer must be shown by completely blackening the corresponding circle in the Answer Sheet against the relevant question number by Black Ballpoint Pen. OMR Answer Sheet without marking Series shall not be evaluated.

Example :

Suppose the following question is asked :

The Capital of Meghalaya is

(A) Guwahati

(B) Kohima

(C) Shillong

(D) Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative (C), i.e., Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ballpoint Pen only as below :

(A) (B) ● (D)

The example shown above is the only correct method of answering.

5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.

6. There will NOT be any negative marking for wrong answers.

7. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.

8. No Rough Work is to be done on the Answer Sheet. Space for Rough Work has been provided in the Question Booklet.

SEAL

**PART—A : GENERAL ENGLISH, GENERAL KNOWLEDGE,
GENERAL MATHEMATICS, GENERAL APTITUDE, REASONING**

(Marks : 100)

Each question carries **2** marks

Directions : In Q. Nos. 1-5, fill in the blanks with the correct answers from the given alternatives.

1. She doesn't even know how to use _____ computer.

- (A) the
- (B) her
- (C) a
- (D) an

2. _____ Education Minister will be visiting our campus next week.

- (A) An
- (B) The
- (C) Their
- (D) A

3. They need to concentrate _____ their studies.

- (A) in
- (B) at
- (C) over
- (D) on

4. I'm studying _____ the University of Fine Arts.

- (A) with
- (B) in
- (C) at
- (D) from

5. All students must work _____ a collaborative environment.

- (A) through
- (B) in
- (C) with
- (D) on

Directions : In Q. Nos. 6-10, out of the four alternatives given, choose the one which best expresses the similar meaning of the given words.

6. Dishevelled appearance

- (A) Untidy
- (B) Fierce
- (C) Foolish
- (D) Unhappy

7. A clandestine meeting

- (A) A hurried meeting
- (B) A prearranged meeting
- (C) A secret meeting
- (D) A public meeting

8. A glib talker

- (A) A loud mouth
- (B) A nervous speaker
- (C) A boring speaker
- (D) A smooth talker

9. Feel antipathy

- (A) Friendliness
- (B) Hostility
- (C) Suspense
- (D) Bashfulness

10. To simulate interest

- (A) To pretend to be interested
- (B) To stir up interest
- (C) To lose interest
- (D) To show no interest

Directions : In Q. Nos. 11-13, out of the four alternatives given, choose the one which best expresses the opposite meaning of the given word.

11. Considerable

- (A) Large
- (B) Significant
- (C) Sizeable
- (D) Paltry

12. Finale

- (A) End
- (B) Climax
- (C) Beginning
- (D) Exciting finish

13. Solid

- (A) Concrete
- (B) Liquid
- (C) Thick
- (D) Firm

Directions : Choose the correct answer from the given alternatives.

14. In which Five-Year Plan, India opted for a mixed economy?

- (A) First Five-Year Plan
- (B) Second Five-Year Plan
- (C) Third Five-Year Plan
- (D) Fourth Five-Year Plan

15. Globalization refers to

- (A) a more integrated and independent world
- (B) less foreign trade and investment
- (C) global warming
- (D) reduction of taxes

16. The term 'computer' is derived from a/an

- (A) Latin word
- (B) German word
- (C) Arabic word
- (D) French word

17. In India, which of the following rights **cannot** be suspended during National Emergency?

- (A) Right to freedom
- (B) Right against exploitation
- (C) Right to constitutional remedies
- (D) Protection of life and personal liberty

18. *Julius Caesar*, a historical play and tragedy, was written by

- (A) Charles Dickens
- (B) Thomas Hardy
- (C) William Shakespeare
- (D) Lewis Carroll

19. Which instrument is used for measuring an earthquake?

- (A) Barometer
- (B) Seismograph
- (C) Thermometer
- (D) Quake meter

20. In India, the power to increase the number of judges in the Supreme Court lies with the

- (A) President
- (B) Prime Minister
- (C) Union Ministry of Law
- (D) Parliament

21. Carbohydrates in the plants are stored in the form of

- (A) glycogen
- (B) starch
- (C) glucose
- (D) maltose

22. Which is the second oldest national party in India?

- (A) Indian National Congress
- (B) Bharatiya Janata Party
- (C) Communist Party of India
- (D) All India Trinamool Congress

23. Who was the first Governor-General of India?

- (A) Lord Cornwallis
- (B) William Bentinck
- (C) Robert Clive
- (D) Warren Hastings

24. The region of earth, where life exists, is known as

- (A) atmosphere
- (B) biosphere
- (C) lithosphere
- (D) hydrosphere

25. During the World War II, the major 'Axis Powers' were

- (A) Germany, Italy and Japan
- (B) Germany, Russia and France
- (C) Germany, Spain and Italy
- (D) Germany, Russia and Italy

26. A sum of ₹ 700 is to be used to give seven cash prizes to students of a school for their overall academic performance. If each cash prize is ₹ 20 less than its preceding prize, then the value of the first prize is

- (A) ₹ 100
- (B) ₹ 120
- (C) ₹ 140
- (D) ₹ 160

27. The edge of a cube increased by 50%. The percentage increase in the surface area of the cube is

- (A) 125%
- (B) 100%
- (C) 75%
- (D) 50%

28. John had ₹ 500 left after spending 60% of his money. How much he had in the beginning?

- (A) ₹ 1000
- (B) ₹ 1125
- (C) ₹ 1250
- (D) ₹ 1500

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

- (A) $\sec A$
- (B) $\sin A$
- (C) $\operatorname{cosec} A$
- (D) $\cos A$

30. A die is thrown twice. The probability that 5 will come out at least once is

- (A) $\frac{25}{36}$
- (B) $\frac{1}{3}$
- (C) $\frac{11}{36}$
- (D) $\frac{2}{3}$

31. The values of k for the quadratic equation $kx(x-2)+6=0$, so that it has two equal roots, are

- (A) 0, 6
- (B) 0, -6
- (C) 4, 6
- (D) 4, -6

32. The measure of the angle which is 9° less than twice its supplement is

- (A) 123°
- (B) 117°
- (C) 63°
- (D) 57°

33. If $(1, 2)$, $(4, y)$, $(x, 6)$ and $(3, 5)$ are the vertices of a parallelogram taken in order, then the value of x is

- (A) 6
- (B) 3
- (C) -6
- (D) -3

34. A vessel is in the form of hemisphere mounted by a hollow cylinder. The diameter of the hemisphere is 14 cm and the total height of the vessel is 13 cm. The inner surface area of the vessel is

- (A) 756 cm^2
- (B) 653 cm^2
- (C) 572 cm^2
- (D) 752 cm^2

35. Five years hence, the age of Jacob will be three times the age of his son. Five years ago, Jacob's age was seven times that of his son. The present age of Jacob is

- (A) 20 years
- (B) 30 years
- (C) 40 years
- (D) 50 years

36. Two concentric circles are of radii 5 cm and 3 cm. The length of the chord of the larger circle which touches the smaller circle is

- (A) 4 cm
- (B) 8 cm
- (C) 6 cm
- (D) 12 cm

37. The sum of the exponents in the prime factorization of 360 is

- (A) 10
- (B) 5
- (C) 6
- (D) 3

38. The words in the given pairs, except one, bear a certain relationship. Choose the pair in which the words are differently related.

- (A) Wood : Furniture
- (B) Wool : Sweater
- (C) Shoes : Socks
- (D) Wax : Candles

39. Find the number which will come in place of the question mark in the following series :

11, 12, 15, 20, 27, ?

- (A) 36
- (B) 35
- (C) 38
- (D) 41

40. Complete the following series by picking the correct pair of numbers from the options :

3, 4, 7, 8, 11, 12, ?, ?

- (A) 13, 14
- (B) 18, 20
- (C) 15, 16
- (D) 19, 20

41. Complete the following series :

DAZ, FDX, HGV, ?

- (A) JJT
- (B) FGT
- (C) TJT
- (D) GJT

42. Pick the term which does **not** fit in the following series :

1FG, 5JF, 9NE, 15RD, 17VC

- (A) 17VC
- (B) 15RD
- (C) 9NE
- (D) 5JF

43. If *A* is the brother of *B*, *C* is the sister of *B* and *B* is the father of *D*, how is *D* related to *A* ?

- (A) Niece
- (B) Nephew/Niece
- (C) Nephew
- (D) Cousin

Directions : In Q. Nos. 44 and 45, pick the odd one out by rearranging the jumbled up words in their natural sequence.

44. (A) KWAH
(B) WCRO
(C) AORSWPR
(D) EUPNGIN
45. (A) RUMTCPEO
(B) OAPPTL
(C) NTVIESILOE
(D) EKCCAENL

46. Select the related word from the given alternatives :

Tuberculosis : Lungs :: Typhoid : ?

- (A) Liver
(B) Intestine
(C) Lungs
(D) Brain

47. Rohit bought an AC for ₹ 12,160 and paid ₹ 340 for transportation. He then sold the AC for ₹ 12,875. What is his profit %?

- (A) 3%
(B) 5%
(C) 6%
(D) 2%

48. The average monthly salary of A and B is ₹ 7,000. The average monthly salary of B and C is ₹ 8,500. The average monthly salary of A and C is ₹ 9,000. What is the monthly salary of A?

- (A) ₹ 8,000
(B) ₹ 7,500
(C) ₹ 9,000
(D) ₹ 8,500

Directions : In Q. Nos. 49 and 50, there are four words. Three of them are similar and one is different. Pick the odd one out.

49. (A) Dollar

- (B) Peso
(C) Ounce
(D) Euro

50. (A) Plough

- (B) Seed drill
(C) Hoe
(D) Sickle

PART—B : FORENSIC SCIENCE & CRIME SCENE MANAGEMENT

(Marks : 200)

Each question carries **2** marks

- 51.** Gustafson method of determination of age is based on
- (A) evaluation of ground sections of teeth
 - (B) canine development
 - (C) molar tooth eruption
 - (D) None of the above
- 52.** A temporary loss of consciousness is called
- (A) coma
 - (B) syncope
 - (C) asphyxia
 - (D) suffocation
- 53.** What is meant by clinically dead?
- (A) When a clinic declares a person as dead
 - (B) Cessations of blood circulation and breathing
 - (C) When a person becomes unconscious
 - (D) When a person suffers brain damage
- 54.** The time since death from the eggs of the flies is
- (A) 2-5 days
 - (B) 3-5 days
 - (C) 1-6 days
 - (D) 1-3 days
- 55.** Which sample is collected for examination of food poisoning by microorganisms?
- (A) Stomach contents sample
 - (B) Urine sample
 - (C) Stool sample
 - (D) Saliva sample
- 56.** The fluid mosaic model of cell membrane was discovered by
- (A) G. S. Robert and T. S. Moore, 1973
 - (B) S. J. Singer and G. L. Nicolson, 1972
 - (C) M. Jacob and O. Monad, 1969
 - (D) A. Keith and E. Moore, 1971
- 57.** On which organelle protein synthesis occurs?
- (A) Ribosome
 - (B) Lysosome
 - (C) Nucleosome
 - (D) Episome
- 58.** In which stage of meiosis, crossing over takes place?
- (A) Pachytene
 - (B) Leptotene
 - (C) Metaphase
 - (D) Anaphase

59. How can time of death be determined by stomach contents?
- (A) Stomach empties its contents 4 hours to 6 hours after a meal
 - (B) Stomach empties its contents 2 hours to 3 hours after a meal
 - (C) Stomach contents are examined for quality of meal
 - (D) Not possible to assess time of death by stomach contents
60. Most commonly used STR loci are
- (A) 10–100 bp in length
 - (B) 500–1000 bp in length
 - (C) 100–500 bp in length
 - (D) 1000–1500 bp in length
61. Coronal sutures first close at the approximate age of
- (A) 25 years
 - (B) 24 years
 - (C) 20 years
 - (D) 21 years
62. Demirjian method of estimation of age is based on
- (A) cranial sutures
 - (B) fusion of epiphysis with shaft
 - (C) developmental stages of teeth
 - (D) All of the above
63. Facial reconstruction is used for
- (A) individualisation using skeletal remains
 - (B) superimposition
 - (C) making face looks attractive
 - (D) None of the above
64. Colchicine interferes in
- (A) DNA replication
 - (B) spindle organization
 - (C) chromosome condensation
 - (D) polyploidy
65. A boy has 20 permanent and 8 temporary teeth. His age is likely to be
- (A) 10 years
 - (B) 09 years
 - (C) 12 years
 - (D) 11 years
66. Which maggot best indicates time since death?
- (A) Flies belonging to the families Calliphoridae and Sarcophagidae
 - (B) Flies belonging to the families Scenopinidae and Rhagionidae
 - (C) Flies of all families
 - (D) Flies belonging to the families Silidae and Scenopinidae

67. The injury sustained by skin due to an alternating current is called
- (A) brush burn
 - (B) filigree burn
 - (C) Joule burn
 - (D) arborescent mark
68. Endocrine system is related to
- (A) enzymes
 - (B) proteins
 - (C) vitamins
 - (D) hormones
69. Polydactyly in man is due to
- (A) autosomal recessive allele
 - (B) autosomal dominant allele
 - (C) sex-linked recessive allele
 - (D) sex-linked dominant allele
70. Angora is a wool fibre obtained from
- (A) Deer
 - (B) Goat
 - (C) Camel
 - (D) Rabbit
71. Wool is made up of
- (A) protein
 - (B) fat
 - (C) carbohydrate and fat
 - (D) protein and lipid
72. Animal cell membrane is made up of
- (A) lipids
 - (B) proteins
 - (C) lipids and proteins
 - (D) carbohydrates and proteins
73. Human mt-DNA is approximately
- (A) 20 kbp
 - (B) 16.6 kbp
 - (C) 18 kbp
 - (D) 16.9 kbp
74. Rh factor found on the surface of RBCs is a/an
- (A) protein
 - (B) glucose
 - (C) amino acid
 - (D) RNA
75. In determining the phenotype for the ABO blood system
- (A) O is dominant over A
 - (B) B is dominant over A
 - (C) O is recessive
 - (D) All of the above
76. How does polymorphism arise?
- (A) Mutation
 - (B) Recombination
 - (C) Diploidy
 - (D) Haploidy

77. The term 'genomics' was coined by
- (A) Thomas Cech
 - (B) T. H. Morgan
 - (C) Tom Roderick
 - (D) Craig Venter
78. The ratio of plasma and cells in blood is
- (A) 55:45
 - (B) 45:55
 - (C) 65:35
 - (D) 35:65
79. Organelle that contains digestive enzymes in the cells is
- (A) ribosome
 - (B) lysosome
 - (C) nucleosome
 - (D) episome
80. Universal donors have no antigens in RBCs but have both antibodies a and b. They belong to the blood group
- (A) A
 - (B) B
 - (C) AB
 - (D) O
81. Alcohol and Datura together produce
- (A) synergism
 - (B) tolerance
 - (C) allergy
 - (D) sensitivity
82. Iodoform test is used to
- (A) identify the presence of a $\text{CH}_3\text{CH}(\text{OH})$ group in alcohols
 - (B) identify the presence of a CH_3CHO group in alcohols
 - (C) identify the presence of a CH_3OH group in alcohols
 - (D) identify the presence of a HCHO group in alcohols
83. The alcohol which does **not** react with Lucas reagent is
- (A) isobutyl alcohol
 - (B) *n*-butanol
 - (C) tert-butyl alcohol
 - (D) sec-butyl alcohol
84. Proof spirit is a mixture of absolute alcohol and water which has
- (A) 30·1% v/v ethanol
 - (B) 37·1% v/v ethanol
 - (C) 47·1% v/v ethanol
 - (D) 57·1% v/v ethanol
85. Brass is an alloy of
- (A) zinc and copper
 - (B) copper and nickel
 - (C) zinc and nickel
 - (D) zinc and iron

86. Smoke point is determined to check the adulteration of
- (A) lubricating oil
 - (B) diesel
 - (C) petrol
 - (D) kerosene
87. Adulteration of petrol with kerosene can be detected by
- (A) HPLC with RI detector
 - (B) GC with ECD detector
 - (C) GC with FID detector
 - (D) GC with thermal conductivity detector
88. A gasoline with an octane number of 100 has the same knock as mixture of
- (A) 0% isooctane and 100% heptane
 - (B) 100% octane and 0% heptane
 - (C) 100% isooctane and 0% heptane
 - (D) 100% isooctane and 0% hexane
89. Which of the following physical evidences is a cause of spontaneous fire?
- (A) Electrical short circuit
 - (B) Left of burning cigarette stub and matchstick
 - (C) Falling of lighting candle or kerosene lamp
 - (D) Rags wetted with linseed oil
90. Physical evidences collected from an arson crime scene should be packed in
- (A) sealed metal boxes with tight lids
 - (B) sealed plastic bags
 - (C) sealed cloth bags
 - (D) sealed paper bags
91. The phenolphthalein gives colour in alkaline medium due to conversion of phenolphthalein from
- (A) saturated to unsaturated structure
 - (B) monomer to polymer structure
 - (C) benzenoid to quinonoid structure
 - (D) All of the above
92. Uranyl zinc acetate test is used for detecting
- (A) sodium
 - (B) potassium
 - (C) magnesium
 - (D) carbonate
93. Sodium rhodizonate and alkali hydroxide is used to test
- (A) sodium
 - (B) potassium
 - (C) magnesium
 - (D) calcium

94. Which one of the following statements is false?
- (A) Dyes are more transparent than pigments.
- (B) Both dyes and pigments are soluble in water.
- (C) Most dyes are organic while pigments are both organic and inorganic.
- (D) A dye particle is very small while a pigment particle is comparatively very large.
95. The main components of Picratol, an explosive mixture, are
- (A) RDX and ammonium picrate
- (B) TNT and ammonium picrate
- (C) TNT and PETN
- (D) ammonium nitrate and ammonium picrate
96. Which separation technique is suitable for the analysis of thermally sensitive materials such as organic explosives?
- (A) High-Performance Thin-Layer Chromatography (HPTLC)
- (B) High-Performance Liquid Chromatography (HPLC)
- (C) Ultra-High-Performance Liquid Chromatography (UHPLC)
- (D) All of the above
97. In recent years, dynamite has been replaced commercially by
- (A) nitroglycerine
- (B) RDX
- (C) ammonium nitrate explosive
- (D) TATP
98. The presence of porphyroxine in a chemical test is an indication of
- (A) opium poisoning
- (B) cannabis poisoning
- (C) digitalis poisoning
- (D) Datura poisoning
99. The mixture of potassium nitrate, sulphur and charcoal in the ratio of 75:15:10 is called
- (A) smokeless powder
- (B) propellant
- (C) gunpowder
- (D) pyrotechnics
100. Which of the following is **not** component of an explosive primer?
- (A) Mercury fulminate
- (B) Lead azide
- (C) Hexahydro-1,3,5,-trinitro-1,3,5-triazine
- (D) None of the above

- 101.** Following microscopic examination, when water gel explosive containing ammonium nitrate or a low explosive is suspected, the debris should be rinsed with
- (A) alcohol
 - (B) acetone
 - (C) water
 - (D) None of the above
- 102.** Which of the following substances is used as drug of abuse?
- (A) Alcohol
 - (B) Lorazepam
 - (C) Organic solvents
 - (D) All of the above
- 103.** Koppanyi-Zwicker test is used for detection of which compound?
- (A) Eldrin
 - (B) Sulphonamides
 - (C) Baygon
 - (D) Methaqualone
- 104.** Arrange the following with the increasing quantity of THC in cannabis products starting with the lowest quantity.
1. Ganja
 2. Bhang
 3. Charas
 4. Hashish oil
- (A) 1, 4, 3 and 2
 - (B) 4, 3, 2 and 1
 - (C) 3, 2, 1 and 4
 - (D) 2, 1, 3 and 4
- 105.** Composition of snake venom includes
- (A) digestive enzymes
 - (B) proteins
 - (C) carbohydrates
 - (D) All of the above
- 106.** Which of the following is an example of synthetic opioids?
- (A) Morphine
 - (B) Mescaline
 - (C) Fentanyl
 - (D) Codeine
- 107.** Botulism is caused by
- (A) algae virus
 - (B) virus
 - (C) bacteria
 - (D) fungi
- 108.** Zwicker's test responds to
- (A) Paracetamol
 - (B) Amphetamines
 - (C) Benzodiazepines
 - (D) Barbiturates
- 109.** The Section 328 of IPC is associated with
- (A) punishment of fouling water of public water bodies
 - (B) punishment for selling a drug as a different drug or preparation
 - (C) punishment for causing hurt by means of poison or stupefying agent
 - (D) punishment for adulterating food or drink intended for sale

110. Which of the following is common ingredient of cough syrup?
- (A) Cocaine
 - (B) Codeine
 - (C) Morphine
 - (D) Propoxyphene
111. What is the size of a cluster in NTFS?
- (A) 512 bytes
 - (B) 1024 bytes
 - (C) 1536 bytes
 - (D) 2048 bytes
112. What is the full form of VSS used in NTFS?
- (A) Virtual Shadow Service
 - (B) Volume Snapshot Service
 - (C) Valued Screenshot Service
 - (D) Viral Snapshot Service
113. What is the full form of SCSI?
- (A) Single Connector System Interface
 - (B) Secure Connector System Interface
 - (C) Super Computer System Interface
 - (D) Small Computer System Interface
114. What is the full form of ASCII?
- (A) Alternate Super Computer for Internal Interface
 - (B) American Standard Code for Information Interchange
 - (C) Austrian Super Code for International Interface
 - (D) Army Standard Code for Internal Interchange
115. What is the full form of BHIM mobile app developed by NPCI?
- (A) Bharat Interchange for Machines
 - (B) Bharat Interface for Money
 - (C) Bharat Interaction for Machines
 - (D) Bharat Interchange for Money
116. What is a person called when they try to hurt a group of people with the use of a computer?
- (A) White-hat intruder
 - (B) Cracker
 - (C) Social engineer
 - (D) Cyber terrorist
117. The honeypot is **not** used for
- (A) luring cyber attackers
 - (B) studying attempts to gain unauthorized access
 - (C) attracting DOS attack launchers
 - (D) identifying malicious activities over Internet
118. Mail Merge is
- (A) merging of two or more e-mails into one
 - (B) mass-mailing facility using a database
 - (C) deleting of e-mails
 - (D) spam filter

119. Oxygen forensic kit is used to extract and analyze data from
- (A) SATA hard disks
 - (B) mobile devices
 - (C) flash memory cards
 - (D) SSD hard disks
120. An Internet 'Bot' is a software application that runs
- (A) automated scripts over Internet to collect predefined data
 - (B) batch scripts to carry out predefined tasks
 - (C) perl scripts over the selected system
 - (D) ruby scripts over the selected system
121. 'WannaCry' malware can be categorized as a
- (A) Ransomware
 - (B) Spyware
 - (C) Adware
 - (D) Bot
122. How is isolation achieved in a seized cell phone?
- (A) By putting into Faraday's bag
 - (B) By changing user profile to flight mode
 - (C) By using radio frequency jammer
 - (D) All the options are correct
123. How can deleted data be recovered from memory card of a cell phone?
- (A) Using computer forensics tool kit
 - (B) Using file carving tools
 - (C) Using 'Recuva' tool
 - (D) All the options are correct
124. 'Flame' malware can be categorized as a
- (A) Ransomware
 - (B) Spyware
 - (C) Worm
 - (D) Trojan
125. 'Gauss' malware can be categorized as a
- (A) Ransomware
 - (B) Spyware
 - (C) Worm
 - (D) Trojan
126. 'Stuxnet' malware spreads
- (A) via infected USB thumb drives/ hard disks
 - (B) via Wi-Fi network
 - (C) by clicking on a URL of an infected system
 - (D) via infected downloads
127. 'Stuxnet' was designed to target
- (A) SCADA systems
 - (B) on-line banking accounts
 - (C) Government web servers
 - (D) main server

128. 'I Love You' virus can be categorized as a
- (A) Trojan Horse
 - (B) Spyware
 - (C) Worm
 - (D) Rootkit
129. 'I Love You' virus spreads by
- (A) infected portable media
 - (B) .vbs file attached to the mail
 - (C) clicking on the link given in the mail
 - (D) infected system on LAN
130. What should be the most desired quality of a forensic expert?
- (A) Punctuality
 - (B) Knowledge
 - (C) Honesty
 - (D) Calmness
131. Which of the following is correct with regard to lossy compression?
- (A) It describes a compression algorithm that does not maintain data integrity
 - (B) It describes a compression algorithm that does not maintain data confidentiality
 - (C) It describes a compression algorithm that does not maintain data availability
 - (D) It describes a compression algorithm that does not maintain data authenticity
132. What is a pixel?
- (A) It is a short form of picture element
 - (B) It is a short form of poster element
 - (C) It is a short form of picture exponent
 - (D) It is a short form of picture equivalent
133. From the following, which information is **not** available in EXIF file?
- (A) Manufacturer and model
 - (B) Date and time
 - (C) Latitude and longitude
 - (D) Temperature and humidity
134. Which file will have '.lnk' extension?
- (A) Shortcut file
 - (B) Compressed file
 - (C) Database file
 - (D) Spool file
135. Journaling file system is used in
- (A) Linux
 - (B) Windows
 - (C) Mac
 - (D) Solaris

136. Which of the following types of virtualization is also characteristic of cloud computing?
- (A) Storage
(B) Application
(C) CPU
(D) All of the above options are correct
137. Where does the hibernation data stored in Mac OS?
- (A) Sleepimage
(B) Hiberfile
(C) Swapfile
(D) Pagefile
138. What is a PST file?
- (A) The mail storage format used by Outlook e-mail client
(B) The mail storage format used by Lotus e-mail client
(C) The mail storage format used by Thunderbird e-mail client
(D) The mail storage format used by Hiri e-mail client
139. Which of the following IEEE standard does **not** belong to WLAN?
- (A) 802.11a
(B) 802.11b
(C) 802.11m
(D) 802.11n
140. What is the full form of NTFS?
- (A) Nano Technology File Server
(B) Neo Technology File System
(C) Neutral Technology File Server
(D) New Technology File System
141. A glass fragment is dropped into a test tube filled with a particular liquid. If the fragment floats on the ice surface, the density of the glass is _____ the density of the liquid.
- (A) lesser than
(B) more than
(C) equal to
(D) not related to
142. The refractive index of a glass fragment
- (A) can be determined by making the fragment disappear in a liquid of known refractive index
(B) is a physical property of the glass regardless of its size
(C) cannot be found because fragments are too small
(D) Both (A) and (B)
143. In a case of brawl at a bar, glass bottle was used to smash the head of the victim. What possible physical evidences would you look for at the scene of crime?
- (A) Blood on floor
(B) Blood on bottle
(C) Broken bottle
(D) Blood stained prints on bottle

- 144.** A man claims that someone broke into his house through the window. The IO believes that the window was broken from the inside of the house. What evidence would lead him to believe this?
- (A) The edge of the window had stress marks perpendicular to the outside and parallel to the inside
 - (B) The window had concentric lines in the fracture pattern
 - (C) The window had radial fractures in the fracture pattern
 - (D) The man looked like he was lying
- 145.** While examining the glass fractures, radial lines are
- (A) cracks down the Becke line
 - (B) directional lines that seem to go nowhere
 - (C) cracks that form in circles around the point of impact
 - (D) cracks that extend out from the point of impact at the right angle on the reverse side
- 146.** If two fracture lines meet, it is easy to determine which fracture occurred first by examining which one of the following?
- (A) The second fracture will not have concentric cracks
 - (B) The fracture line will terminate the crack that happened first
 - (C) The second fracture line will terminate at the crack that was made first
 - (D) It is impossible to determine which occurred first
- 147.** Which of the following is a vegetable fibre?
- (A) Jute
 - (B) Polyester
 - (C) Silk
 - (D) Hair
- 148.** It is useful to find Becke line, when examining
- (A) radial fractures
 - (B) sequence of impact
 - (C) refractive index
 - (D) density
- 149.** Which of the following is composed of a mixture of cement, sand and gravel?
- (A) Reinforced concrete
 - (B) Mortar
 - (C) Coarse aggregate
 - (D) Concrete
- 150.** Which of the following tests are used for soil evidence examinations?
- (A) Density gradient and particle size distribution
 - (B) Particle size distribution and oil immersion method
 - (C) Flotation method and density gradient
 - (D) All of the above options