YEAR OF ADVT: 2020 DATE OF EXAM: 07-SEPTEMBER-2024

Booklet Serial No.

43429

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

SERIES: I

QUESTION BOOKLET

Subjects: General English, General Knowledge and Mathematics

Full Marks: 300 Time Allowed: 2½ 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 three Parts:

Part—A: General English: 50 questions
Part—B: General Knowledge: 50 questions
Part—C: Mathematics: 50 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.

/41-I [AA (Sup) : Dec-20]

PART-A: GENERAL ENGLISH

(Marks: 100)

Each	question	carries	2	marks	

Direct	tions:	(Q.	Nos.	1-10),	Choo	se	the
corre	ct optic	n fr	om 1	the four	alter	nat	ives
given	below.	Use	the	correct	form	of	the
given	verb fo	rms.					

Fingerprints 1 (be) the impressions made
by the whorls that form unique pattern on the
fingertips. People 2 (know) for hundreds
of years that no two fingerprints are the same
However, only in the last seventy years have
fingerprints 3 (be use) by the police in
the detection of crime. It _4 (be) a mistake
to believe that fingerprints 5 (point) the
way only to criminals. Because of their
singularity they 6 (be use) in security and
defence organisations to establish the identity
of personnel. Hospitals
take the footprints of newborn babies so that
mothers can be sure they 8 (take) home
the right infants. Recently, it _9_ (be find)
that the identity of dogs 10 (be establish)
as no two dogs have the same nose print!
그 그는 그는 그는 그는 그는 그는 그는 그들은 그들이 얼마나 하는 그리지 않는 그를 보고 있다.

- **1.** (A) is
- (B) are
- (C) be
- (D) have been
- 2. (A) have known
 - (B) know
 - (C) known
 - (D) is known
- 3. (A) used
 - (B) use
 - (C) been used
 - (D) have been used
- 4. (A) is
- (B) are
- (C) were
- (D) is been
- 5. (A) pointed
- (2) 10 Decil
- · (1) ponited
- (B) has pointed
- (C) is pointed (D) point
- 6. (A) are used
 - (B) is used
 - (C) have been used
 - (D) been used

- 7. (A) are known
 - (B) been known
 - (C) be known
 - (D) have been known
- 8. (A) will take (B) take
 - (C) are taking (D) have taken
- 9. (A) is found
 - (B) been found
 - (C) was found
 - (D) has been found
- 10. (A) be established
 - (B) established
 - (C) is established
 - (D) was established

Directions: (Q. Nos. 11-15), Fill in the blank choosing an appropriate term from the choices given below each sentence.

- 11. In his later years, the writer was troubled ____ poor health.
 - (A) by
- (B) with
- (C) for
- (D) upon
- **12.** Tourism has taken ____ much of the simple beauty of hill stations.
 - (A) off
- (B) by
- (C) away
- (D) about
- 13. With a few deft strokes the artist shaped the block of ice ____ a fish.
 - (A) to
- (B) like
- (C) into
- (D) for
- **14.** The first to come ____ to help were children.
 - (A) by
- (B) forward
- (C) there
- (D) onward
- **15.** The mountaineers were advised ____ starting their expedition till the weather improved.
 - (A) at
- (B) about
- (C) for
- (D) against

Directions: (Q. Nos. 16-20), Choose an appropriate meaning from the options given below, for the words printed in BLOCK LETTERS.

16. PHILATELIST

- (A) a person who spoils or destroys in secret, to prevent the functioning of something
- (B) a person who studies and collects postage stamps
- (C) a person cooperating with the enemy occupying his country
- (D) an expert judge on the finer things of life

17. EUPHEMISM

- (A) a pleasant name for something unpleasant
- (B) to give much importance or undue reverence for something
- (C) enthusiasm for a particular country or group
- (D) a belief of making different races live apart

18. LUDDITE

- (A) a person who dabbles in a subject, especially related to fine arts
- (B) a person who skates on thin ice
- (C) a person who has a general, but not serious interest in various subjects
- (D) a person opposed to mechanical and technological changes

19. PROSCENIUM

- (A) the stage area between the curtain and the orchestra
- (B) native to the place where found
- (C) a roof or covering of a structure designed to provide cover from sun and rain
- (D) the art of trickery

20. ANACHRONISM

- (A) the mistake or referring things of an age earlier or later than the age described
- (B) references to classical events or legends
- (C) mistakes in grammar and structure
- (D) reference to the effect of time on the life of man

Directions: (Q. Nos. 21-25), Choose the correct sentence/sentences.

- **21.** (i) He boasted that he had never been ill all his life.
 - (ii) He boasted of keeping perfect health all his life.
 - (iii) He boasted of being healthy in his life.
 - (A) (i)
 - (B) (i) and (iii)
 - (C) (ii) and (iii)
- (D) (i), (ii) and (iii)
- **22.** (i) 'Do not exceed the speed limit', the notice read.
 - (ii) 'Do not exceed the speed limit' the notice warned.
 - (iii) The notice cautioned drivers not to exceed the speed limit.
 - (A) (i) and (ii)
- (B) (i) and (iii)
- (C) (ii) and (iii)
- (D) (i), (ii) and (iii)
- **23.** (i) Theirs was the most lavish wedding we ever attended.
 - (ii) Never did we attended a lavish wedding as theirs.
 - (iii) Never have we attended a lavish wedding as theirs.
 - (A) (i)
- (B) (i) and (iii)
- (C) (ii) and (iii)
- D) (i), (ii) and (iii)
- **24.** (i) As Mike knew Greek he had no difficulty when he toured Greece.
 - (ii) Mike's knowledge of Greek helped him when he toured Greece.
 - (iii) Mike's knowledge of Greek helped him during his tour of Greece.
 - (A) (i) and (ii)
- (B) (i) and (iii)
- (C) (ii) and (iii)
- (D) (i), (ii) and (iii)
- **25.** (i) A holiday was declared by the administration and few voters came out of their homes to vote.
 - (ii) In spite of a holiday being declared by the administration few voters came out of their homes.
 - (iii) Although a holiday had been declared by the administration, few voters came out of their homes.
 - (A) (i) and (ii)
- (B) (i) and (iii)
- (C) (ii) and (iii)
- D) (i), (ii) and (iii)

Directions: (Q. Nos. 26-30), Arrange the sentences a, b, c and d to form a logical sequence between sentences 1 and 6.

- **26.** 1. Reptiles become stuck in a swamp and die
 - a. Over great periods of time, the peat is compressed and turned to coal
 - b. As the centuries pass and more vegetation accumulates, the deposit turns to peat
 - c. Changes in the sea level may cause the swamp to be flooded and layers of sand to be deposited on top of the peat
 - d. Dead vegetation drifts to the bottom and covers them
 - 6. The reptile's bones still remain with it.
 - (A) dbca
- (B) dacb
- (C) cdba
- (D) cdab
- 27. 1. The top management should perceive the true worth of people and only then make friends
 - a. Such 'true friends' are very few and rare
 - Factors such as affluence, riches, outward sophistication and conceptual abilities are not prerequisites of genuine friendship
 - c. Such people must be respected and kept close to the heart
 - d. Business realities call for developing a large circle of acquaintances and contracts; however, all of them will be motivated by their own self-interest and it would be wrong to treat them as genuine friends
 - 6. There is always a need for real friends to whom one can turn for balanced, unselfish advice, most so when one is caught in a dilemma.
 - (A) cdab
- (B) dbac
- (C) cadb
- (D) acbd

- **28.** 1. Managers must lead by example; they should not be averse to giving a hand in manual labour, if required
 - a. They should update their competence to guide their subordinates, this is possible only if they keep in regular touch with the new processes, machines, instruments, gauges, systems and gadgets
 - b. Work must be allocated to different groups and team members in clear, specific terms
 - c. Too much of wall building is detrimental to the exercise of the personal charisma of the leader whose presence should not be felt only through notices, circulars or memos, but by being seen physically
 - d. Simple, clean living among one's people should be insisted upon
 - 6. This would mean the maintaining of an updated organization chart, laying down job descriptions, identifying key result areas, setting personal targets and above all, monitoring of performance to meet organizational goals.
 - (A) bdac
- (B) bcda
- (C) adcb
- (D) acbd
- 29. 1. Now as we struggle to create
 - a. It is in vastly different circumstances
 - b. A better life for our people
 - c. Watchfulness, we cannot indulge in such
 - d. For obviously in today's eagle-eyed
 - 6. Practices even for worthwhile purposes.
 - (A) adcb
- (B) dcba
- (C) dbac
- (D) badc

- **30.** 1. Historically, stained glass was almost entirely reserved for ecclesiastical spaces
 - a. By all counts, he has accomplished that vision with unmistakable style
 - b. "It is my mission to bring it kicking and screaming out of the milieu", says Clarke
 - c. The first was the jewel-like windows he designed for a Cistercian Church in Switzerland
 - d. Two recent projects show his genius in the separate worlds of the sacred and the mundane
 - 6. The other was a spectacular, huge skylight in a shopping complex in Brazil.
 - (A) cbad
- (B) badc
- (C) abdc
- (D) dbac

Directions: (Q. Nos. 31-35), Each of the sentences below contains an underlined phrase. From the alternatives given below choose the correct option that best expresses the meaning of the underlined phrase.

- **31.** Why should you always be the one to cast the first stone?
 - (A) deeply involved
 - (B) to be the first to find fault
 - (C) to praise first of all
 - (D) to start a fight
- **32.** The entire discussion revolved around the moot point.
 - (A) an important point
 - (B) a non-controversial issue
 - (C) a controversial issue
 - (D) an unrelated issue

- **33.** While I do my shopping, you may chew the cud.
 - (A) go through legalities
 - (B) reflect upon one's past
 - (C) have breakfast
 - (D) kill time
- **34.** The project seems to be in an apple pie order.
 - (A) a disorderly manner
 - (B) a messy manner
 - (C) perfectly neat and tidy
 - (D) beautifully decorated
- 35. Unexpectedly he proved to be a man of straw when his moral courage was tested.
 - (A) very stubborn
 - (B) very weak
 - (C) upright
 - (D) very useful

Directions: (Q. Nos. 36-40), From the alternatives given below, select the one-word substitution for the given sentences.

- **36.** A school boy who cuts classes frequently
 - (A) Defeatist
 - (B) Sychophant
 - (C) Truant
 - (D) Martinet
- **37.** The act of violating the sanctity of the Church
 - (A) Blasphemy
 - (B) Heresy
 - (C) Sacrilege
 - (D) Desecration

- 38. Nemesis is a symbol of
 - (A) Low birth
 - (B) Punishment
 - (C) Treason
 - (D) Self-love
- 39. The act of sleepwalking
 - (A) Prevaricate
 - (B) Misologist
 - (C) Somnambulism
 - (D) Xenophobia
- **40.** The inclination of wasting resources or behaving extravagantly
 - (A) Profligate
 - (B) Wastage
 - (C) Rankle
 - (D) Vacillating

Directions: (Q. Nos. 41-45), Choose an appropriate antonym for the words printed in BOLD LETTERS from the options given below.

41. MUTATION

- (A) Constancy
- (B) Decency
- (C) Adolescent
- (D) Coordination

42. INSOLVENT

- (A) Physically pure
- (B) Financially stable
- (C) Trivial
- (D) Chemically active ...

43. ACQUITTAL

- (A) Warrant
- (B) Condemnation
- (C) Punishment
- (D) Castigation

44. PARSIMONY

- (A) Closely held
- (B) Free spending
- (C) Tight fisted
- (D) Precision

45. VOCIFEROUS

- (A) Laudable
- (B) Quiet
- (C) Dangerous
- (D) Powerful

Directions: (Q. Nos. 46-50), Choose an appropriate synonym for the words printed in BOLD LETTERS from the options given below.

46. OSTENSIBLE

- (A) Apparent
- (B) Elaborate
- (C) Traditional
- (D) Showy

47. LOQUACIOUS

- (A) Verbose
- (B) Taciturn
- (C) Rational
- (D) Amiable

48. PREPOSTEROUS

- (A) Formal
- (B) Judicious
- (C) Ridiculous
- (D) Ceremonious

49. CANTANKEROUS

- (A) Talkative
- (B) Aggressive
- (C) Quarrelsome
- (D) Obedient

50. ELAN

- (A) Flair
- (B) Spiritual
- (C) Inspiration
- (D) Boredom

PART-B: GENERAL KNOWLEDGE

(Marks: 100)

Each	question	carries	2	marks	
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- 51. The ₹3,800 crores Ranjeet Sagar Dam under Thein Dam Project is located on the river
 - (A) Beas
- (B) Chenab
- (C) Ravi
- (D) Sutlej
- **52.** Which of the following States is least developed in rail routes?
 - (A) Chhattisgarh
 - (B) Jharkhand
 - (C) Manipur
 - (D) Uttarakhand
- 53. 'Lakshya', which has been induced into the Indian defence system, is a
 - (A) surface-to-air missile
 - (B) missile-firing submarine
 - (C) multi-barrel rocket system
 - (D) pilotless target aircraft
- **54.** The author of the book, Waiting for the Mahatma is
 - (A) Amrita Pritam
 - (B) R. K. Narayan
 - (C) N. A. Palkhivala
 - (D) Manohar Malgoankar
- 55. Who invented optical fibre?
 - (A) Samuel Cohen
 - (B) Narinder Kapany
 - (C) Percy L. Spencer
 - (D) T. H. Maimah

- 56. Alzheimer's disease affects
 - (A) children
 - (B) adolescent
 - (C) young people
 - (D) elderly people
- 57. The Indian Factory Act was passed in
 - (A) 1861
- (B) 1881
- (C) 1887
- (D) 1898
- **58.** Most of the ozone in the atmosphere is concentrated in the
 - (A) ionosphere
 - (B) mesosphere
 - (C) stratosphere
 - (D) troposphere
- **59.** The year 2009 was observed as the Year of Ox in which country?
 - (A) Japan
 - (B) South Korea
 - (C) China
 - (D) Vietnam
- **60.** Bombay (Mumbai) was acquired by the English from the Portuguese in the year
 - (A) 1662
- (B) 1612
- (C) 1600
- (D) 1595
- 61. Eiffel Tower is in
 - (A) Paris
 - (B) London
 - (C) Tokyo
 - (D) New York

62.	Shakespeare's sonnet has how many	68.	Pulitzer prize is given for
	lines?		(A) agriculture (B) journalism
	(A) 9 (B) 14		(C) art (D) social work
	(C) 24 (D) 12 Which of the following countries is	69.	Which of the following projects is the largest multipurpose project in India?
	not included in G-8 (Group of eight industrialized countries)?		(A) Hirakud (B) Bhakra Nangal
	(A) Italy		(C) Beas
	(B) Russia		(D) Damodar Valley
	(C) Netherlands		
	(D) Canada	70.	What was the name of the town established by Akbar?
64.	When is the International Youth Day		(A) Agra
	observed?		(B) Delhi
	(A) August 9		(C) Fatehpur Sikri
	(B) August 12		(D) Nizamabad
	(C) August 15		1 Cat Indian to have
•	(D) August 23	71.	received the Nobel Prize?
65.	Who were the first to issue gold coins		(A) Rabindranath Tagore
	in India?		(B) C. V. Raman
	(A) Mauryas (B) Indo-Greeks		(C) Jaishankar Prasad
	(C) Guptas (D) Kushans		(D) Gopal Krishna Gokhale
66.	Which German physicist invented the	72	
	electron microscope that won him the		(A) Mediterranean Sea and Red Sea
	1986 Nobel Prize in Physics?		(B) Atlantic Ocean and Pacific Ocean
	(A) Ernst Ruska		(C) Black Sea and Caspian Sea
	(B) van't Hoff		(D) Caspian Sea and Red Sea
	(C) J. H. D. Jensen		
	(D) Eugene P. Wigner	73	Parliament can be appointed as a
67.	The ocean between America and Europe is called		Minister by the President for a maximum period of
	(A) Arctic		(A) 9 months
	(B) Atlantic		(B) 6 months
	(C) South Atlantic		(C) 12 months
	(D) Pacific		(D) 3 months

74.	The author of the book, Lajja belongs to	81.	AIDS is caused by
	(A) India (B) Pakistan		(A) bacteria
	(C) Bangladesh (D) Britain		(B) protozoa
			(C) helminth
75.	Tirana is the capital of		(D) virus
	(A) Hungary (B) Afghanistan		
	(C) Albania (D) Yugoslavia	82.	The second most widely spoken language in India is
76.	Kathakali is the dance of		(A) Bengali (B) Marathi
	(A) Kerala		(C) Punjabi (D) Telugu
	(B) Tamil Nadu		
	(C) Andhra Pradesh	83.	'Queensberry Rules' is the name given
	(D) Karnataka		to the rules in
			(A) hockey (B) cricket
77.	Who is associated with Chipko Movement in India?		(C) tennis (D) boxing
	(A) Vinoba Bhave	84.	The retirement age of a judge of the
	(B) Sunderlal Bahuguna		Supreme Court is
	(C) Sunita Narain		(A) 65 years (B) 62 years
	(D) Satyapal Maharaj		(C) 60 years (D) 58 years
78.	The gold mines at Kolar are situated in	85.	Noise is measured in units called
	(A) Kerala		(A) hertz (B) decibel
	(B) Karnataka		(C) ampere (D) horse power
	(C) Tamil Nadu	0.0	701 A. 1. 1. O. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	(D) Andhra Pradesh	86.	
			(A) 1773 (B) 1782
79.	Under which Article of the Constitution of India, Presidential rule can be		(C) 1784 (D) 1790
	declared and imposed in a State in	87.	The Battle of Plassey was fought in
	India?		(A) 1764 (B) 1748
	(A) Article 350		(C) 1782 (D) 1757
	(B) Article 351		
	(C) Article 354	88.	Which country in the world is the
	(D) Article 356		largest producer of natural rubber?
			(A) Indonesia
80.	When was UNO established?		(B) Thailand
	(A) 1920 (B) 1945		(C) Vietnam
	(C) 1950 (D) 1955		(D) Malaysia

(A) A painter (B) A dancer (C) A singer (D) A writer (D) A writer (E) A dancer (D) A writer (D) A writer (E) A dancer (D) A writer (D) A writer (E) A dancer (D) A writer (D) A writer (E) Murad (C) Mir Jumla (D) Abul Hasan Qutb Shah (E) Geneva (C) Washington (D) London (C) Washington (D) London (D) London (E) Udaipur (D) Ahmedabad (C) Haryana (D) None of the following States, the productivity of rice is the highest? (A) Punjab (B) Uttar Pradesh (C) Haryana (D) None of the above (C) Manipur (D) Mizoram (C) Manipur (D) Mizoram (D) Mizoram (E) Mizoram (D) Mizoram (E) Geneva (C) Jharia (D) Classical Dance (C) Jharia (D) Dhanbad (E) Tata Nagar (C) Jharia (D) Dhanbad (C) Jharia (D) Dhanbad (D) In which State of India wet agricultuis practised? (A) Tamil Nadu (B) Karnataka (C) Andhra Pradesh (C) Andhra Pradesh (C) Andhra Pradesh (D) Kerala	89.	Who was Pablo Picasso (1881-1973)?	95.	According to the United Nations World	
(B) A dancer (C) A singer (D) A writer 90. The famous diamond 'Kohinoor' was presented to Shah Jahan by (A) Aurangzeb (B) Murad (C) Mir Jumla (D) Abul Hasan Qutb Shah 91. The World Trade Organization is located at (A) New York (B) Geneva (C) Washington (D) London 92. In which of the following States, the productivity of rice is the highest? (A) Punjab (B) Uttar Pradesh (C) Haryana (D) None of the above 93. Which of the following States does not lie along Patkai Hills? (A) Nagaland (B) Tripura (C) Manipur (D) Mizoram 94. The percentage of irrigated land of India is about (A) So (B) 65 (C) 35 (D) 20 96. Blue Revolution is associated with (A) fish (B) milk (C) flower (D) litmus 97. India's biggest telescope M Application Solar Telescope (MAST) been installed at (A) Bengaluru (B) Shimla (C) Udaipur (D) Ahmedabad 98. What is common among Ku Shankar, Laxman and Sudhir Dar? (A) Drawing Cartoons (B) Film Direction (C) Instrumental Music (D) Classical Dance 99. Indian School of Mines is located in (A) Asansol (B) Tata Nagar (C) Jharia (D) Dhanbad 100. In which State of India wet agricultur is practised? (A) Tamil Nadu (B) Karnataka (C) Andhra Pradesh (D) Kerala				Happiness Report', what is the rank of	
(b) A writer (c) The famous diamond 'Kohinoor' was presented to Shah Jahan by (d) Aurangzeb (e) Murad (c) Mir Jumla (d) Abul Hasan Qutb Shah 91. The World Trade Organization is located at (e) Mer York (f) Geneva (f) Washington (f) London 92. In which of the following States, the productivity of rice is the highest? (a) Punjab (b) Uttar Pradesh (c) Haryana (c) Haryana (d) None of the above 93. Which of the following States does not lie along Patkai Hills? (c) Manipur (d) Mizoram 94. The percentage of irrigated land of India is about (A) So (B) 65 (C) 35 (D) 20 96. Blue Revolution is associated with (A) fish (B) milk (C) flower (D) litmus (A) fish (B) milk (C) flower (D) litmus (A) punila (C) India's biggest telescope M Application Solar Telescope (MAST) been installed at (A) Bengaluru (B) Shimla (C) Udaipur (D) Ahmedabad (C) Udaipur (D) Ahmedabad (C) Harwana and Sudhir Dar? (A) Drawing Cartoons (B) Film Direction (C) Instrumental Music (D) Classical Dance (D) Classical Dance (D) In which State of India wet agricultus is practised? (A) Tamil Nadu (B) Karnataka (C) Andhra Pradesh (D) Kerala		(B) A dancer			
90. The famous diamond 'Kohinoor' was presented to Shah Jahan by (A) Aurangzeb (B) Murad (C) Mir Jumla (D) Abul Hasan Qutb Shah 91. The World Trade Organization is located at (A) New York (B) Geneva (C) Washington (D) London 92. In which of the following States, the productivity of rice is the highest? (A) Punjab (B) Uttar Pradesh (C) Haryana (D) None of the above 93. Which of the following States does not lie along Patkai Hills? (A) Nagaland (B) Tripura (C) Manipur (D) Mizoram 94. The percentage of irrigated land of India is about (A) So (B) 65 (C) 35 (D) 20 96. Blue Revolution is associated with (A) fish (B) milk (C) flower (D) litmus (A) fish (B) milk (C) flower (D) litmus (A) pilleation Solar Telescope (MAST) been installed at (A) Bengaluru (B) Shimla (C) Udaipur (D) Ahmedabad (C) Udaipur (D) Ahmedabad (C) Instrumental Music (D) Classical Dance (C) Instrumental Music (D) Classical Dance (D) Indian School of Mines is located in (A) Asansol (B) Tata Nagar (C) Jharia (D) Dhanbad (D) In which State of India wet agricultur is practised? (A) Tamil Nadu (B) Karnataka (C) Andhra Pradesh (D) Kerala		(C) A singer		(A) 117 (B) 108	
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PART-C: MATHEMATICS

(Marks: 100)

Each question carries 2 marks:

- 101. The cost of 5 pens of the same kind is ₹28, then the cost of each pen is
 - (A) ₹28
- (B) ₹5.6
- (C) ₹ 6·5
- (D) ₹ 140
- **102.** The cube root of 2197 is
 - (A) 21
- (B) 19
- (C) 13
- (D) 27
- **103.** The value of $(2^2)^0$ is
 - (A) 4
- (B) 2
- (C) 1
- (D) 0
- 104. The value of 1.272727... is
 - (A) 1·3
 - (B) $\frac{14}{11}$
 - (C) $\frac{11}{14}$
 - (D) None of the above
- **105.** A car travels 24 km in one hour. How far will the car travel in 12 hours?
 - (A) 288 km
- (B) 24 km
- (C) 12 km
- (D) 2 km
- **106.** How much does 40 m 5 cm exceed 35 m 78 cm?
 - (A) 4 m 27 cm
 - (B) 4 m 72 cm
 - (C) 76 m 28 cm
 - (D) None of the above

- 107. The number of vertices in a cuboid is
 - (A) 6
- (B) 8
- (C) 12
- (D) 4
- 108. $\frac{3}{5} \times \frac{4}{5}$, where x is
 - (A) =
 - (B) >
 - (C) <
 - (D) None of the above
- 109. The degree of the polynomial

$$5 + 2x^2 + 3x^3 + x^6$$

is

- (A) 4
- (B) 6
- (C) 2
- (D) 5
- 110. The value of the polynomial $2x-3x^2+10$ at x=-1 is
 - (A) 10
- (B) 5
- (C) 9
- (D) 15
- 111. The sides of any triangle are 3 cm, 4 cm, 5 cm respectively, then the perimeter of the triangle is
 - (A) 24 cm
- (B) 60 cm
- (C) 12 cm
- (D) 20 cm
- 112. If length, breadth and height of a cuboid are 3 cm, 4 cm, 6 cm respectively, then the total surface area is
 - (A) $108 \, \text{cm}^2$
- (B) 84 cm^2
- (C) 72 cm^2
- (D) 48 cm^2

- 113. The area of a circle, whose diameter is 14 cm, is
 - (A) $616 \, \text{cm}^2$
- (B) 196 cm²
- (C) 154 cm^2
- (D) 49 cm^2
- 114. The value of $3^0 \times 3^1 \times 3^2$ is
 - (A) 27
- (B) 81
- (C) 9
- (D) 243
- 115. The LCM of 12, 24 and 36 is
 - (A) 12
- (B) 24
- 36
- (D)
- 116. If ₹600 is divided between Sonu and Monu in the ratio 3:2, then they will get respectively
 - (A) ₹400 and ₹200
 - (B) ₹360 and ₹240
 - (C) ₹240 and ₹360
 - (D) None of the above
- 117. The absolute value of -5 is
 - (A) 25
- (B) 125
- (C) 5
- (D) -5
- **118.** The value of $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8}$ is
 - (A) $\frac{1}{16}$ (B) $\frac{15}{8}$
 - (C) $\frac{1}{64}$ (D) $\frac{1}{8}$
- **119.** If 2, 5, x, 25 are in proportion, then the value of x is
 - (A) 8
- (B) 50
- (C) 10
- (D)

- 120. $\frac{2}{-5}$ when expressed as a decimal number becomes
 - (A) 0.4
- (B) 0.04
- (C) -0.4
- (D) -0·04
- **121.** The inverse of $\frac{3}{5}$ is

 - (A) $\frac{3^{-1}}{5}$ (B) $\frac{3}{5^{-1}}$

 - (C) $\frac{3}{5}$ (D) $\frac{5}{3}$
- 122. The number of days together in the months of February, March and April in the year 2019 is

 - (A) 90 days (B) 93 days
 - (C) 89 days
- (D) 91 days
- **123.** The multiplicative inverse of $\frac{2}{-3}$ is

 - (A) $\left| \frac{-2}{3} \right|$ (B) $\left| \frac{-2}{-3} \right|$
 - (C) $\frac{3}{2}$ (D) $\frac{2}{3}$
- **124.** $(1+a)(1+a^2)(1+a^4)(1-a)$ is equal to
 - (A) $1+a^8$ (B) $1-a^8$
 - (C) $1+a^6$ (D) $1+a^{16}$
- 125. A boy attempts (x+y) sums of which (y + z) are wrong. Then the number of correct sums is
 - (A) x+2y+z (B) z+x
 - (C) x-z (D) z-x

126. $(x-y)(x^2 + xy + y^2)$ is equal to

- (A) $x^3 + y^3$
- (B) $x^3 y^3$
- (C) $y^3 x^3$
- (D) $x^3 + y^3 + 3x^2y + 3xy^2$

127. $a^2 - 5a + 6$ is equal to

- (A) (a+3)(a-2)
- (B) (a-3)(a+2)
- (C) (a-3)(a-2)
- (D) None of the above

128. (x-4)(x-3) is equal to

- (A) $x^2 + 7x + 12$
- (B) $x^2 7x 12$
- (C) $x^2 7x + 12$
- (D) $x^2 + 7x 12$

129. $2^3 + 2^2 + 2^1 - 2^0$ is equal to

- (A) 13
- (B) 14
- (C) 15
- (D) 16

130. $(4^0)^2$ is equal to

- (A) 16
- (B) 0
- (C) 1
- (D) &

131. The value of $(2\sqrt{3} + 3\sqrt{7}) - (\sqrt{3} - 2\sqrt{7})$ is

- (A) $\sqrt{3} + 5\sqrt{7}$ (B) $3\sqrt{3} + 5\sqrt{7}$
- (C) $\sqrt{3} 5\sqrt{7}$ (D) $3\sqrt{3} 5\sqrt{7}$

132. $\left(\frac{x^a}{x^b}\right) \cdot \left(\frac{x^b}{x^c}\right) \cdot \left(\frac{x^c}{x^a}\right)$ is equal to

- (C) a+b+c
- (D) x+y+z

133. If 3x + 15 = 0, then x is equal to

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

134. How many cubic centimeters make 1 litre?

- (A) $10 \, \text{cm}^3$
- (B) 100 cm^3
- (C) $1000 \, \text{cm}^3$
- (D) $10000 \, \text{cm}^3$

135. The point (-2, -3) lies in

- (A) first quadrant
- (B) second quadrant
- (C) third quadrant
- (D) fourth quadrant

136. $(a+b)^{-1}$ is equal to

- (A) $\frac{1}{a} + \frac{1}{b}$ (B) a b
- (C) $\frac{1}{a+b}$ (D) $\frac{1}{a} \frac{1}{b}$

137. The arithmetic mean between 12 and -4 is

- (A) 2
- (B)
- (C) 6
- (D) 8

- 138. $(\sin 90^{\circ} \sin 30^{\circ})$ is equal to
 - (A) tan 60°
- (B) sin 60°
- (C) $\frac{1}{2}$ (D) 1
- **139.** If $\sin A = \frac{3}{5}$, then $\cos A$ is equal to
- (C) $\frac{5}{4}$ (D) $\frac{3}{4}$
- **140.** If P(E) = 0.05, then P(not E) is equal to
 - (A) 0.5
- (B) 0.95
- (C) 0·05
- (D) 0.9
- **141.** If $A + B = 90^{\circ}$, then
 - (A) $\sin A + \cos B = 0$
 - (B) $\sin A - \cos B = 0$
 - (C) $\sin A + \tan B = 0$
 - (D) $\sin A \tan B = 0$
- **142.** The volume of a sphere with radius r is equal to

 - (A) $4\pi r^2$ (B) $\frac{4}{3}\pi r^3$
 - (C) $\frac{3}{4}\pi r^3$ (D) $_{*}\pi r^2$
- 143. If 2, x, 10 are in AP, then x is equal to
 - (A) 4
- (B) 5
- (C) 6
- (D) 8

- **144.** $(x^2 + x + 1)$ is a
 - (A) monomial
 - (B) binomial
 - (C) trinomial
 - (D) None of the above
- **145.** The degree of $(x^2y^2)(2x^3y^3)$ is
 - (A) 4
- (B) 6
- (C) 10
- (D) 12
- **146.** In the product (2x+4)(3x+2), the coefficient of x is
 - (A) 2
- (B) 3
- (C) 6
- (D) 16
- 147. The square root of 361 is
 - (A) 61
- (B) 31
- (C) 19
- (D) 91
- 148. Asha bought a pen for ₹ 20 and sold it for ₹25. Then gain percentage is
 - (A) 5%
- (B) 10%
- (C) 20%
- (D) 25%
- 149. 15% of ₹60 is equal to
 - (A) ₹20
- (B)
- (C) ₹9
- ₹ 10 (D)
- 150. The distance between two points (4, 0) and (0, 3) is
 - (A) 3
- (B)
- (C) 5
- (D) 7