

Booklet Serial No.

30942

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

QUESTION BOOKLET

SERIES : II

Subjects : General English, General Awareness & Aptitude and Arithmetic

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 Awareness and Aptitude	: 75 questions
Part—C	: Arithmetic	: 25 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) (C) (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.

PART—A : GENERAL ENGLISH

(Marks : 100)

Each question carries 2 marks :

Directions (Q. Nos. 1-5) : In the following questions, there are jumbled up sentence parts which are labelled as I, II, III and IV. Rearrange the sequence in order to produce the correct sentence. Choose the correct sequence order from the given set of alternatives. Mark the correct answer in your answer sheet.

1. I. bird
II. I was
III. as free
IV. as a
(A) I-II-III-IV
(B) IV-I-II-III
(C) II-III-IV-I
(D) III-I-II-IV
2. I. the first film
II. he ever
III. that is
IV. saw
(A) I-III-II-IV
(B) III-I-II-IV
(C) II-I-III-IV
(D) IV-III-I-II
3. I. by her indulgent parents
II. the child was so spoiled
III. when she did not receive all of their attention
IV. that she pouted and became sullen
(A) II-I-IV-III
(B) III-IV-II-I
(C) I-IV-III-II
(D) II-III-IV-I

4. I. that
II. racialism
III. should be wiped out
IV. people want
(A) II-III-I-IV
(B) IV-II-III-I
(C) IV-I-II-III
(D) I-II-IV-III

5. I. checked regularly
II. you should have
III. blood pressure
IV. your
(A) IV-III-I-II
(B) I-IV-III-II
(C) II-I-IV-III
(D) II-IV-III-I

Directions (Q. Nos. 6-10) : In the following cloze passage, there are blank spaces which are numbered. Against each number, choose the most appropriate alternative from the set of given alternatives. Mark the correct answer in your answer sheet.

It's nearly spring and it's time to grow plants. Of course, not all plants are 6 grown this season. This makes it very 7 to pick the best plants to grow. The good news is that there are tons of choices. Do you know that plants can grow in nearly every climate? It's true that some plants are picky but most are super 8 and only require water,

dirt and of course sun. This spring is the 9 time to start your own garden. There are three amazing plants that work in every single climate. The first is spinach. Spinach is very easy to grow because it holds water well and can stand different levels of heat. The second is carrot. There are many types of carrot you can grow. Most carrots are very quick to grow and also handle all types of climates as well. The 10 is tomatoes. There are tons of different types of tomatoes. It's easy to find the perfect tomato for any location. Go plant some plants!

6. (A) actually
(B) today
(C) now
(D) actively

7. (A) easy
(B) fun
(C) stressful
(D) difficult

8. (A) flexible
(B) picky
(C) divine
(D) difficult

9. (A) worst
(B) perfect
(C) nice
(D) better

10. (A) first
(B) second
(C) third
(D) fourth

Directions (Q. Nos. 11-15) : In the following questions, the sentences have blank spaces followed by four alternative answers. Choose the correct grammar alternative from the given choices. Mark the correct answer in your answer sheet.

11. _____ have been to the opera.
(A) Neither John nor I
(B) Neither I nor John
(C) Neither John nor me
(D) Neither me nor John

12. Just _____ there are few secrets.
(A) between you and I
(B) between me and you
(C) between I and you
(D) between you and me

13. Steven, _____ has been chosen for the quiz, is a clever boy.
(A) that
(B) whom
(C) who
(D) which

14. My parents always tell me that if I _____ hard I will fail.
(A) didn't work
(B) hadn't worked
(C) can't worked
(D) don't work

15. David _____ across a field one sunny morning, when he noticed a fallen bird.
(A) is strolling
(B) was strolling
(C) strolled
(D) has strolled

Directions (Q. Nos. 16-20) : Read the following passage carefully and answer the questions that follow. Mark the correct answer in your answer sheet.

The Madras High Court on Friday granted 30 days of ordinary leave to S. Nalini, 52, a life convict in the former Prime Minister Rajiv Gandhi's assassination case. The order was passed after she argued her case in person and made a **fervent** plea to the judges in a choked voice that she may be allowed to step out of prison for some days to make arrangements for the marriage of her daughter, who is residing in London.

Nalini had many years ago come out on short paroles of a day each to attend her brother Bhagyanathan's wedding and her father's last rites.

Justices M. M. Sundresh and M. Nirmal Kumar took judicial notice that the State Cabinet itself had on September 9 last year made a recommendation to the Governor to release all seven convicts in the Rajiv Gandhi assassination case. "If, in the view of the government, the petitioner can be allowed to lead a normal life and she would not be a hindrance to the society, the request for leave can never be objected to," they said.

The judges also directed the State Government to bear the expenses of providing escort to her during the period of leave since she expressed difficulty in paying the charges.

"There is no material to hold that she is a women of means. Admittedly, she and her husband are in incarceration for decades.

Asking the petitioner to pay the cost would in a way take away the very order passed by us when it is impossible of compliance," they said.

16. Why was S. Nalini sentenced to lifetime imprisonment by the judiciary of the country?

- (A) She murdered a lot of people during her school days and that came out in the open later
- (B) She murdered her family out of mercy though her husband had left her for another woman before that
- (C) She did not do anything but the court was of the view that she could do something if left to fend for herself within the society
- (D) She was involved in the assassination of the former Prime Minister of India

17. Which among the following is correct regarding the attitude of the State Government towards the sentence of life imprisonment given to S. Nalini?

- (A) The State Government has nothing to say in the whole issue since the case was dealt with by the Central Government.
- (B) The State Government could not understand the fact that there was nothing wrong done by S. Nalini many years ago.
- (C) The State Government is of the opinion that the sentence given to S. Nalini can be remitted at once.
- (D) The State Government wants the convict to continue with the given sentence by the court for the crime committed by her.

18. Which among the following are **not** correct as per the given passage?

I. This is the first time that S. Nalini has been given the permission to come out on parole.

II. S. Nalini has been granted the right to come out on parole to perform the last rites of her husband.

III. S. Nalini has no child and that is why she is not at all happy with the sentence.

(A) Both I and II

(B) Both II and III

(C) Both I and III

(D) All I, II and III

19. Which among the following is/are correct regarding the observations of the Madras High Court regarding S. Nalini?

I. S. Nalini is a very rich woman and that is why no monetary support is required to be given to her.

II. S. Nalini is a dreaded criminal and that is why she should be put behind the bars for life with no chance at any kind of reformation.

III. S. Nalini has intentionally jeopardized her relationship with her husband and that is why she should be punished for that.

(A) None of I, II and III

(B) Both I and II

(C) Both II and III

(D) Both I and III

20. Which among the following would be similar in meaning to the word **fervent** as used in the passage?

(A) Vehement

(B) Ardent

(C) Feeling

(D) Pragmatic

Directions (Q. Nos. 21-25) : For the given underlined idioms/phrases, choose the best alternative out of the four alternatives which expresses the closest meaning of the idiom/phrase. Mark the correct answer in your answer sheet.

21. I do not see eye to eye with you in this matter.

(A) To have the same eyesight

(B) To give the correct decision

(C) To have the same opinion

(D) To obtain suitable punishment

22. Despite the doctor's advice, he still eats like a horse.

(A) Eats a lot of food

(B) Eats slowly

(C) Does not like to eat

(D) Swallows his food

23. Meban is said to be the black sheep of the family.

(A) One who always cooperate

(B) One who has a bad reputation

(C) One who is ashamed

(D) One who has dark coloured skin

24. His argument does not hold water.

(A) To influence

(B) To have effect

(C) Have sound logical fact

(D) To check the flow of water

25. Our school is within a stone's throw away from bus station.

(A) Very far off

(B) Within a certain radius

(C) Within a definite distance

(D) At a short distance

Directions (Q. Nos. 26–30) : In the following questions, substitute each with a single word from among the given alternatives. Mark the correct answer in your answer sheet.

- 26.** Food which agrees with one's taste
 (A) Pungent
 (B) Palatable
 (C) Sensuous
 (D) Edible
- 27.** To mediate between two parties in a dispute
 (A) Interfere
 (B) Interact
 (C) Interrupt
 (D) Intercede
- 28.** Creak is the sound of
 (A) Doors
 (B) Crows
 (C) Dogs
 (D) Coins
- 29.** Person who does not believe in the existence of God
 (A) Theist
 (B) Heretic
 (C) Atheist
 (D) Fanatic
- 30.** Government by the representatives of the people
 (A) Autocracy
 (B) Democracy
 (C) Socialism
 (D) Anarchy

Directions (Q. Nos. 31–35) : In the following questions, choose a word that is opposite in meaning with the given word from among the given alternatives. Mark the correct answer in your answer sheet.

- 31.** Military
 (A) Civil
 (B) Civility
 (C) Militant
 (D) Coup
- 32.** Embrace
 (A) Obscure
 (B) Contradict
 (C) Reject
 (D) Disobey
- 33.** Sinister
 (A) Short
 (B) Long
 (C) Evil
 (D) Good
- 34.** Sterile
 (A) Short
 (B) Common
 (C) Fertile
 (D) Wild
- 35.** Abundance
 (A) Lavish
 (B) Scarcity
 (C) Profusion
 (D) Generous

Directions (Q. Nos. 36–40) : In the following questions, choose a word that is most similar in meaning with the given word from among the given alternatives. Mark the correct answer in your answer sheet.

36. Conceal

- (A) Harvest
- (B) To explore
- (C) Clear
- (D) Obscure

37. Emancipate

- (A) Liberate
- (B) To put in cage
- (C) Proud
- (D) Collect

38. Peril

- (A) Ordinary
- (B) Safety
- (C) Caution
- (D) Danger

39. Rustic

- (A) Quarrelsome
- (B) Rural
- (C) Urban
- (D) Refined

40. Brittle

- (A) Soft
- (B) Like iron
- (C) Fragile
- (D) Tough

Directions (Q. Nos. 41–45) : In the following questions, a sentence is given in Direct/Indirect speech. Out of the four alternatives suggested, choose the one which best expresses the same sentence in Indirect/Direct speech. Mark the correct answer in your answer sheet.

41. Khraw said to Iba, "Mona will leave for her village tomorrow."

- (A) Khraw told Iba that Mona will leave for her village tomorrow.
- (B) Khraw told Iba that Mona left for her village the next day.
- (C) Khraw told Iba that Mona would be leaving for her village tomorrow.
- (D) Khraw told Iba that Mona would leave for her village the next day.

42. He said to her, "What a cold day!"

- (A) He told her that it was a cold day.
- (B) He exclaimed that it was a cold day.
- (C) He exclaimed sorrowfully that it was a cold day.
- (D) He exclaimed that it was a very cold day.

43. The old lady exclaimed that her purse was stolen.

- (A) "My purse was stolen!" the old lady said.
- (B) "Somebody stole my purse!" exclaimed the old lady.
- (C) The old lady exclaimed, "My purse was stolen!"
- (D) The old lady cried, "My purse was stolen."

44. He told her, "I want to meet your mother."

- (A) He told her that he wanted to meet her mother.
- (B) He told her that I want to meet your mother.
- (C) He told her that he wanted to meet your mother.
- (D) He told her that she wanted to meet her mother.

45. Damang asked the boy if he could tell him where the nearest post office is.

- (A) "Where is the nearest post office?" Damang asked the boy.
- (B) Damang asked the boy, "Could you tell me where the nearest post office is?"
- (C) Damang asked the boy, "Where is the nearest post office?"
- (D) Damang said to the boy, "Where is the nearest post office?"

Directions (Q. Nos. 46-50) : In the following questions, some sentences have errors and some do not. The underlined words are the key words where you can identify whether the sentence is erroneous or not. From the given set of choices, choose the correct alternative for the identified errors. Where there is no error, choose the specified option (D). Mark the correct answer in your answer sheet.

46. My grandfather died two years ago. He is a great philanthropist.

- (A) was
- (B) had
- (C) are
- (D) No error

47. The stream flowed gently across the bridge.

- (A) above
- (B) under
- (C) on
- (D) No error

48. The flight from Mumbai arrived right on schedule.

- (A) in
- (B) by
- (C) over
- (D) No error

49. The bank robbers were finally caught with the police.

- (A) over
- (B) under
- (C) by
- (D) No error

50. He has the guts to rise from the occasion.

- (A) rise for
- (B) rise to
- (C) rise at
- (D) No error

PART—B : GENERAL AWARENESS AND APTITUDE

(Marks : 150)

Each question carries 2 marks :

- 51.** Mid-day Meal Scheme is administered by which of the following ministries?
- (A) The Ministry of Health and Family Welfare
 - (B) The Ministry of Women and Child Development
 - (C) The Ministry of Education
 - (D) The Ministry of Rural Development
- 52.** Which of the following **do not** participate in the election of the President of India?
- I. Nominated members of the Rajya Sabha
 - II. Nominated members of the Lok Sabha
 - III. Elected members of the State Legislative Councils
- Select the correct answer using the codes given below.
- (A) I and II only
 - (B) I and III only
 - (C) II and III only
 - (D) I, II and III
- 53.** Known to be the land of rolling mountains, the region is accompanied by the formation of foreland basins (valley like depressions) which run parallel to the mountains, these depressions are accumulated vastly with soft unconsolidated deposits forming a molasses basin. The Indian State being described in the above passage is
- (A) Assam
 - (B) Manipur
 - (C) Himachal Pradesh
 - (D) Mizoram
- 54.** Which of the following statements is correct regarding Article 21 (Protection of Life and Personal Liberty)?
- (A) It is available against only arbitrary executive action but not against arbitrary legislative action.
 - (B) It can be suspended only during the operation of National Emergency.
 - (C) Right to life under this Article provides for both active and passive euthanasia.
 - (D) None of the above
- 55.** Dr. Ambedkar called which of the following fundamental rights as the most important Article of the Constitution, without which Indian Constitution would be a nullity?
- (A) Right to Constitutional Remedies
 - (B) Right to Freedom of Speech and Expression
 - (C) Right to Religious and Cultural Freedom
 - (D) Right against Exploitation
- 56.** Fiscal deficit means
- (A) Public Expenditure – Debts from sources other than RBI
 - (B) Public Capital Expenditure – Surplus of Revenue Account
 - (C) Government Expenditure – Revenue Receipts
 - (D) Public Expenditure – Tax and non-tax Revenue Receipts

57. The scholar who accompanied Mahmud of Ghazni to India was

- (A) Iban Batuta
- (B) Al Beruni
- (C) Al Firdusi
- (D) Al Razi

58. Identify the **incorrect** statement.

- (A) A Tsunami is a series of waves generated when water in a lake or the sea is rapidly displaced on a massive scale
- (B) A Tsunami is an after-effect of an earthquake on the seabed
- (C) A Tsunami has smaller amplitude (wave height) offshore and a very long wavelength
- (D) None of the above

59. What is a 'hot line'?

- (A) An electric wire
- (B) Line of control in the battlefield
- (C) Imaginary line indicating atmospheric pressure
- (D) A telecommunication link

60. The provision of joint sitting is applicable for which of the following Bills?

- (A) Ordinary Bill
- (B) Constitutional Amendment Bill
- (C) Money Bill
- (D) None of the above

61. The terms foliation, lineation, and banding are associated with which of the following rocks?

- (A) Igneous rocks
- (B) Sedimentary rocks
- (C) Metamorphic rocks
- (D) All of the above

62. The Nobel Peace Prize for the year 2023 was awarded to

- (A) Narges Mohammadi
- (B) Katalin Kariko
- (C) Anne L' Huillier
- (D) Claudia Goldin

63. Which of the following roads constitute the maximum length of roads in India?

- (A) National Highways
- (B) State Highways
- (C) District Roads
- (D) Rural Roads

64. Which of the following writs can be issued against private individual as well as public authority?

- I. Habeas Corpus
- II. Mandamus
- III. Prohibition

Select the correct answer using the codes given below.

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

65. Who was the Chairman of the First Finance Commission?

- (A) K. Santhanam
- (B) A. K. Chanda
- (C) K. C. Neogy
- (D) Mahavir Tyagi

66. The President exercises executive power through the
- Prime Minister
 - Council of Ministers headed by the Prime Minister
 - Parliament
 - Chief Justice of the Supreme Court
67. The earth looks blue from the sky because
- of scattering of light by particles in the atmosphere
 - of dispersion of light in lower atmosphere
 - 70% of its total area is covered by water
 - the colour of the sky is blue
68. Who among the following Europeans were the last to come to pre-Independence India as traders?
- Dutch
 - English
 - French
 - Portuguese
69. With reference to Mughal rule, what does the term Jizya refer to?
- A pilgrimage tax imposed by the Mughal emperors
 - A unit of land measurement
 - A tax imposed on annual income of non-Muslims
 - A title given to revenue collecting officers
70. The main reason for the launch of the Khilafat Movement was to
- demand for greater political representation of Muslims in the legislature and executive
 - agitate against the discrimination being meted out to the Indian Muslims
 - protest against the treatment meted out to the Ottoman Empire by the British
 - show dissent against government's decision to go back on partition of Bengal
71. The Quit India Movement was started after the failure of
- Cabinet Mission
 - Wavell Plan
 - Cripps Mission
 - Simon Commission
72. With reference to Direct Benefit Transfer (DBT), consider the following statements :
- Under DBT, the monetary benefits from different schemes will be directly transferred to the beneficiary's bank account.
 - It will help to eliminate waste in subsidy transfer and reduce corruption.
- Which of the statements given above is/are correct?
- I only
 - II only
 - Both I and II
 - Neither I nor II

73. "It was a post-dated cheque drawn on a crashing bank." This statement about Cripps' Proposal was made by
 (A) Jawaharlal Nehru
 (B) Abul Kalam Azad
 (C) M. A. Jinnah
 (D) M. K. Gandhi
74. Sustainable Development Goal Index is launched by which of the following?
 (A) World Economic Forum
 (B) Sustainable Development Solutions Network
 (C) World Bank
 (D) United Nations Framework Convention on Climate Change
75. Proxima b, recently seen in news, is
 (A) a tail-less comet
 (B) an earth like planet
 (C) a remote sensing satellite
 (D) a newly discovered galaxy
76. Which of the following countries has the highest volume of proven oil reserves in the world?
 (A) Venezuela
 (B) Russia
 (C) Saudi Arabia
 (D) Nigeria
77. Suez Canal connects which of the following water bodies?
 (A) Atlantic Ocean and Pacific Ocean
 (B) Red Sea and Mediterranean Sea
 (C) Baltic Sea and Mediterranean Sea
 (D) Atlantic Ocean and Red Sea
78. Which Veda is lyrical?
 (A) Rigveda
 (B) Yajurveda
 (C) Samaveda
 (D) Atharvaveda
79. CRISPR-Cas9 technique is often seen in news in the context of
 (A) space technology
 (B) defence technology
 (C) cyber warfare
 (D) gene editing
80. FASTag refers to a device for
 (A) deep-sea exploration of hydrocarbons
 (B) processing electronic waste
 (C) State-wise monitoring of power generation
 (D) toll collection on national highways
81. MERCOSUR is
 (A) an intergovernmental military alliance of European Nations
 (B) an economic block of four South American countries
 (C) a space mission of NASA to planet Mercury
 (D) a political and economic union of South-east Asian Nations

82. Which among the following correctly describes the Earth Hour?

- (A) It is a movement in which participants use public transport only for one hour on a certain day every year.
- (B) It is a movement in which the participants switch off the lights for one hour on a certain day every year.
- (C) It is a movement in which the participating nations prohibit generation of energy by non-renewable sources for one hour.
- (D) It is a movement in which participants clean the streets and roads of the country on a certain day of every year for one hour.

83. The national park which is home to the largest population of lion-tailed Macaque is

- (A) Manas
- (B) Bannerghatta
- (C) Silent valley
- (D) Nanda Devi

84. With reference to Anti-defection Law, consider the following statements :

- I. If any person after being elected as the Speaker resigns from his party, he/she will not be disqualified under the law.
- II. Independent members would not be disqualified if they join a political party within 6 months of being elected.

Which of the statements given above is/are correct?

- (A) I only
- (B) II only
- (C) Both I and II
- (D) Neither I nor II

85. Riboflavin is also known as

- (A) vitamin B₁
- (B) vitamin B₂
- (C) vitamin B₆
- (D) vitamin B₁₂

86. The term 'rancidity' refers to

- (A) decrease in pH of soil after acid rain
- (B) oxidation of unsaturated fat present in food products causing unpleasant odour or flavour
- (C) conversion of basic solution into acidic due to addition of hydrogen ions
- (D) the process of formation of photochemical smog

87. The provisions of the Sixth Schedule of the Indian Constitution are applicable to the tribal areas of which of the following States?

- I. Assam
- II. Meghalaya
- III. Mizoram
- IV. Manipur

Select the correct answer using the codes given below.

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

88. The National Calendar is based on the

- (A) Vikram era
- (B) Saka era
- (C) Gupta era
- (D) Hijri era

89. Which among the following animals are depicted in the State Emblem of India?

- I. Lion
- II. Bull
- III. Horse
- IV. Elephant

Select the correct answer using the codes given below.

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

90. Bharat Rang Mahotsav, considered as Asia's biggest international theatre festival, is conducted by

- (A) National School of Drama (NSD)
- (B) The Lalit Kala Akademi
- (C) The Film and Television Institute of India (FTII)
- (D) Kalakshetra Foundation

91. According to the Union Budget, fiscal deficit for 2023-24 is targeted at

- (A) 5.0% of GDP
- (B) 3.5% of GDP
- (C) 5.9% of GDP
- (D) 4.5% of GDP

92. Which one of the following describes India as a Democratic State?

- (A) Fundamental Rights
- (B) Directive Principles of State Policy
- (C) Seventh Schedule
- (D) Preamble

93. With reference to economy, the term Inflation Tax refers to

- (A) rise in inflation due to lower taxes
- (B) higher proportion of wages paid as tax
- (C) decrease in the value of cash due to inflation
- (D) a tax to penalize short-term currency speculation

94. Which of the following is **not** correct regarding Zero Hour?

- (A) It starts immediately after the question hour and lasts until the agenda for the day
- (B) It is available to all the members of the Parliament to raise matters without any prior notice
- (C) It is an Indian innovation in the field of parliamentary procedures
- (D) It is mentioned in the Rules of Procedure

95. PfSPZ, RTS, S and chloroquine are related to the treatment of

- (A) tuberculosis
- (B) malaria
- (C) measles
- (D) filariasis

96. In the context of rock formation, banded rocks are

- (A) igneous rocks formed as a result of sudden cooling of magma
- (B) metamorphic rocks with alternating layers appearing in light and dark shades
- (C) rocks formed as a result of compaction of fragments deposited by exogenous agents
- (D) organically formed sedimentary rocks

97. Which of the following newspapers turned overnight into an English newspaper to avoid censorship under the Vernacular Press Act of 1878?

- (A) *Amrita Bazar Patrika*
- (B) *Dacca Prakash*
- (C) *Som Prakash*
- (D) *Bharat Mihir*

98. Which of the following government organizations is the nodal agency for promoting digital transactions in India?

- (A) The NITI Aayog
- (B) The Ministry of Electronics and Information Technology (MEITY)
- (C) The Reserve Bank of India (RBI)
- (D) The Ministry of Finance

99. Duncan Passage separates

- (A) Barren Island from Narcondam Island
- (B) Amindivi Islands from Minicoy Island
- (C) Little Andaman from South Andaman
- (D) New Moore Island from North Andaman

100. Which of the following was/were founded by Annie Besant?

- I. Central Hindu College
- II. Women's Indian Association
- III. Theosophical Society

Select the correct answer using the codes given below.

- (A) I and II only
- (B) I and III only
- (C) II only
- (D) I, II and III

101. The average runs scored by 11 players of a cricket team is 60. If the runs scored by the captain are neglected, the average of runs scored by the remaining players increases by 5. How many runs were scored by the captain?

- (A) 0
- (B) 10
- (C) 55
- (D) 120

102. In a certain code REVERSE is written as SFWEQRD. How is RESERVE written in that code language?

- (A) STFFQDU
- (B) SFTEQDU
- (C) SETFQUD
- (D) SFTEQUD

Read the following two passages and answer the item that follows each passage. Your answers to these items should be based on the passages only.

Passage-1

Trust is the essence of public life. A nation that suspects its leaders of corruption cannot function effectively as a free, just and open society. It is the mark of a good society that public leadership is seen as a form of service rather than a means to power, which is all too easily abused.

103. Which of the following expresses the view implied in the above passage?

- (A) Citizens of a country should not suspect its leaders of wrongdoings
- (B) Leaders should not be bestowed with a lot of power.
- (C) Trustworthiness is the most important quality required in public figures.
- (D) In a democracy, public leadership should be service oriented

Passage-2

In the Western philosophy, there are three eminent schools of ethics. The first, inspired by Aristotle, holds that virtues (such as justice, charity and generosity) are dispositions to act in ways that benefit the possessor of these virtues and the society of which he is a part. The second, subscribed to mainly by Immanuel Kant, makes the concept of duty central to morality : human beings are bound, from knowledge of their duty as rational beings, to obey the categorical imperative to respect other rational beings with whom they interact. The third is the utilitarian viewpoint that asserts that the guiding principle of conduct should be the greatest happiness (or benefit) of the greatest number.

104. Which among the following is the most rational and logical inference that can be made from the above passage?

- (A) The Western thought is full of ethical guidelines to rulers, whether in a monarchy or a democracy
- (B) Utilitarian principle may not safeguard rights of the minorities
- (C) Kant's ethics doesn't consider the consequence of an act for its ethical validity
- (D) Aristotle's principles are not applicable on those people who don't possess any virtue

105. Find the next number in the given sequence :

16, 17, 21, 30, 46

- (A) 71
- (B) 59
- (C) 64
- (D) 63

106. What is the angle made between the hour hand and minute hand of a clock at 3:30 p.m. measured clockwise?

- (A) 75°
- (B) 90°
- (C) 240°
- (D) 270°

107. If A and B together can complete a job in 18 days, it takes A 30 days to complete the same job while working alone. Then in how many days can B complete the job while working alone?

- (A) 25 days
- (B) 35 days
- (C) 45 days
- (D) 30 days

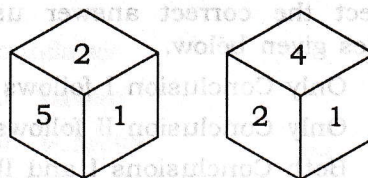
108. A sum of ₹ 800 is divided among A, B and C such that the ratio of money received by A and B is 5 : 3 and the ratio of money received by B and C is 2 : 3. What is the amount of money received by A?

- (A) ₹ 320
- (B) ₹ 300
- (C) ₹ 280
- (D) ₹ 260

109. There are five members in a family—A, B, C, D and E. A, B and C are Doctors while others are Engineers. A, B and D are married while the rest are unmarried. B, C and D are males while the rest are females. Who is the unmarried female engineer?

- (A) C
- (B) D
- (C) E
- (D) A

110. What number will appear on the face opposite to the face containing 5?



- (A) 2
- (B) 4
- (C) 6
- (D) 1

Directions (Q. Nos. 111–113) : In each of the following questions, statements followed by two conclusions are given. You have to choose the conclusion(s) that follow(s) the statement.

111. Statements : All buildings are duster.
No duster is tea.

Conclusions :

- I. No building is tea.
- II. All dusters are buildings.

Select the correct answer using the codes given below.

- (A) Only Conclusion I follows
- (B) Only Conclusion II follows
- (C) Both Conclusions I and II follow
- (D) Neither Conclusion I nor Conclusion II follows

112. Statements : All lamps are deers. All computers are deers.

Conclusions :

- I. All lamps are computers.
- II. Some computers are lamps.

Select the correct answer using the codes given below.

- (A) Only Conclusion I follows
- (B) Only Conclusion II follows
- (C) Both Conclusions I and II follow
- (D) Neither Conclusion I nor Conclusion II follows

113. Statements : Some books are tables. Some tables are mirrors.

Conclusions :

- I. Some mirrors are books.
- II. No book is mirror.

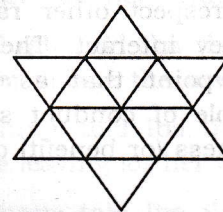
Select the correct answer using the codes given below.

- (A) Only Conclusion I follows
- (B) Only Conclusion II follows
- (C) Both Conclusions I and II follow
- (D) Neither Conclusion I nor Conclusion II follows

114. If the cost price of 20 pens is equal to the selling price of 15 pens, then what is the profit in percentage?

- (A) 25
- (B) 33.33
- (C) 33.67
- (D) 75

115. Observe the figure given below. What is the total number of triangles in the given figure?



- (A) 12
- (B) 18
- (C) 20
- (D) 24

116. A train running at the speed of 60 km/h crosses a pole in 9 seconds. What is the length of the train?

- (A) 120 metres
- (B) 180 metres
- (C) 324 metres
- (D) 150 metres

117. How many cubes of 2 cm edge can be cut out of a cube of 10 cm edge?

- (A) 200
- (B) 125
- (C) 128
- (D) 120

118. If 8 years ago, the father's age was 4 times the age of the son and the ratio of son's to father's present ages is 2 : 5, then current age of the father is

- (A) 40 years
- (B) 36 years
- (C) 32 years
- (D) 28 years

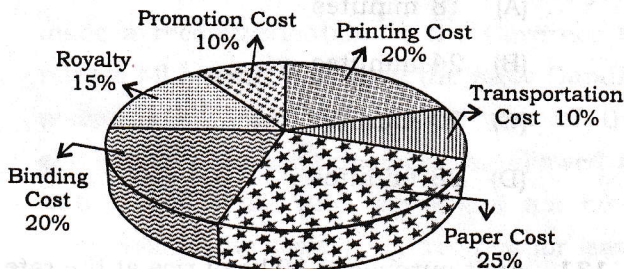
119. Average age of a kindergarten class is 4 years. However, when their teacher is included, the average age becomes 5.5 years. If the teacher is 37 years old, find out the number of students in the class.

- (A) 30 (B) 20
(C) 21 (D) 31

120. The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 36. What is the difference between the two digits of that number?

- (A) 3
(B) 4
(C) 9
(D) None of the above

Directions (Q. Nos. 121-124) : The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and answer the questions based on it.



121. If the difference between the two expenditures is represented by 18° in the pie-chart, then these expenditures possibly are

- (A) Binding Cost and Production Cost
(B) Paper Cost and Royalty
(C) Binding Cost and Printing Cost
(D) Paper Cost and Printing Cost

122. For an edition of 12500 copies, the amount of royalty paid by the publisher is ₹ 2,81,250. What should be the selling price of the book if the publisher desires a profit of 5%? (Use data from the pie-chart given)

- (A) ₹ 152.50
(B) ₹ 157.50
(C) ₹ 162.50
(D) ₹ 167.50

123. If for an edition of the book, the cost of paper is ₹ 56,250, then find the promotion cost for this edition. (Use data from the pie-chart given)

- (A) ₹ 20,000
(B) ₹ 22,500
(C) ₹ 25,500
(D) ₹ 28,125

124. Which two expenditures together have central angle of 108° ? (Use data from the pie-chart given)

- (A) Binding Cost and Transportation Cost
(B) Printing Cost and Paper Cost
(C) Royalty and Promotion Cost
(D) Binding Cost and Paper Cost

125. A candidate should score 45% of the total marks to pass the examination. He gets 520 marks and fails by 20 marks. The total marks in the examination is

- (A) 1000
(B) 1100
(C) 1200
(D) 1400

PART—C : ARITHMETIC

(Marks : 50)

Each question carries 2 marks :

- 126.** Two pipes can fill an empty tank separately in 24 minutes and 40 minutes respectively and a 3rd pipe can empty 30 gallons of water per minute. If all the three pipes are opened, an empty tank becomes full in 1 hour. Find the capacity (in gallons) of the tank.
- (A) 550
(B) 620
(C) 600
(D) 580
- 127.** After 9 o'clock, at what time between 9 pm and 10 pm will the hour and minute hands of a clock point in opposite directions?
- (A) 15 minutes past 9
(B) $16\frac{4}{11}$ minutes past 9
(C) $15\frac{1}{2}$ minutes past 9
(D) $16\frac{1}{2}$ minutes past 9
- 128.** A student was asked to divide a number by 6 and add 12 to the quotient. He, however added 12 to the number and then divided it by 6 and gets 112 as the answer. What should have been the correct answer?
- (A) 122
(B) 128
(C) 136
(D) 130
- 129.** A box contains 36 tickets numbered 1 to 36. One ticket is drawn at random. Find the probability that the number on the ticket is either divisible by 3 or is a perfect square.
- (A) $\frac{2}{9}$
(B) $\frac{3}{8}$
(C) $\frac{3}{5}$
(D) $\frac{4}{9}$
- 130.** The diameter of a wheel is 3 m. The wheel revolves 28 times in a minute. How much times will it take to cover 5280 km?
- (A) 18 minutes
(B) 24 minutes
(C) 20 minutes
(D) 28 minutes
- 131.** Amit purchased 30 kg of rice at the rate of ₹ 10 per kg and 35 kg at the rate of ₹ 11 per kg. He mixed the two. At what price per kg should he sell the mixture to make a 30% profit in the transaction?
- (A) ₹ 13.7
(B) ₹ 16
(C) ₹ 15
(D) ₹ 15.50

132. A rectangular paper 11 cm by 8 cm can be exactly wrapped to cover the curved surface of a cylinder of height 8 cm. The volume of the cylinder is

- (A) 88 cm^3
- (B) 77 cm^3
- (C) 90 cm^3
- (D) 78 cm^3

133. A ball of lead, 4 cm in diameter, is covered with gold. If the volumes of gold and lead are equal, find the thickness of gold.

- (A) 0.428 cm
- (B) 1.28 cm
- (C) 0.518 cm
- (D) 1.05 cm

134. If $\operatorname{cosec} \theta + \cot \theta = p$, then find $\cos \theta$ in terms of p .

- (A) $\frac{p-1}{p+1}$
- (B) $\frac{1-p^3}{1+p^3}$
- (C) $\frac{1-p}{1+p}$
- (D) $\frac{p^2-1}{p^2+1}$

135. A rectangular farm has to be fenced on one long side, one short side and the diagonal. If the cost of fencing is ₹ 10 per metre, the area of the farm is 1200 m^2 and the short side is 30 m long, how much would the job cost?

- (A) ₹ 1,200
- (B) ₹ 3,600
- (C) ₹ 10,000
- (D) ₹ 3,000

136. The compound interest on a sum of money at 5% for 3 years is ₹ 1,324.05. The simple interest is

- (A) ₹ 1,250
- (B) ₹ 1,000
- (C) ₹ 1,260
- (D) ₹ 1,400

137. What annual payment will discharge a debt of ₹ 1,025 due in 2 years at the rate of 5% compound interest?

- (A) ₹ 551.25
- (B) ₹ 600.50
- (C) ₹ 500.05
- (D) ₹ 550.50

- 138.** A shopkeeper sells milk which contains 5% water. What quantity of pure milk should be added to 2 litres of milk (containing 5% water) so that the proportion of water becomes 4%?
- (A) 1.5 litres
(B) 0.5 litre
(C) 1 litre
(D) 2.5 litres
- 139.** A train leaves a station at 5 am at 60 km/h. Another train leaves the same station at 6:30 am at 75 km/h and travels in the direction of the first train, at what time and at what distance from the station will they meet?
- (A) 12:45 am, 300 km
(B) 1:45 am, 350 km
(C) 1:30 am, 250 km
(D) 12:30 am, 450 km
- 140.** By selling an article for ₹ 144, a person gained such that the percentage gain equals the cost price of the article. Find the cost price.
- (A) ₹ 80
(B) ₹ 100
(C) ₹ 90
(D) ₹ 85
- 141.** The incomes of A, B and C are in the ratio 7 : 9 : 12 and their spendings are in the ratio 8 : 9 : 15. If A saves one-fourth of his income, then the ratio of their savings is
- (A) 56 : 90 : 72
(B) 48 : 68 : 76
(C) 50 : 90 : 72
(D) 56 : 99 : 69
- 142.** The average weight of 3 men A, B and C is 84 kg. D joins them and the average weight becomes 80 kg. If E whose weight is 3 kg more than that of D, replaces A, then the average weight of B, C, D and E is 79 kg. The weight of A is
- (A) 70 kg
(B) 75 kg
(C) 82 kg
(D) 80 kg
- 143.** If $a^2 + b^2 + c^2 = 2(a - b - c) - 3$, find the value of $a - b + c$.
- (A) 0
(B) -1
(C) 1
(D) 2

144. Find the largest number of 5 digits which is a perfect square.

- (A) 99000
- (B) 99944
- (C) 99856
- (D) 99964

145. Find the square root of

$$\frac{(0.75)^3}{1-0.75} + [0.75 + (0.75)^2 + 1]$$

- (A) 1
- (B) 2
- (C) 0
- (D) 3

146. The square root of $3 - \sqrt{-16}$ is

- (A) $2 - i$ and $-(2 - i)$
- (B) $2 + i$ and $-2 - i$
- (C) $1 - i$ and $-1 - i$
- (D) $1 + i$ and $-1 - i$

147. A tower standing on a horizontal plane subtends a certain angle at a point 160 metres apart from the foot of the tower. On advancing 100 metres towards it, the tower is found to subtend an angle twice as before. The height of the tower is

- (A) 90 metres
- (B) 95 metres
- (C) 85 metres
- (D) 80 metres

148. The angles of a quadrilateral are in the ratio 2 : 4 : 7 : 5. The smallest angle is equal to the smallest angle of a triangle. One of the angles of the triangle is twice the smallest angle of the triangle. What is the 2nd largest angle of the triangle?

- (A) 45°
- (B) 55°
- (C) 65°
- (D) 60°

149. If on a marked price, the difference of selling prices with a discount of 30% and two successive discounts of 20% and 10% is ₹ 72, what is the marked price?

- (A) ₹ 3,600
- (B) ₹ 2,500
- (C) ₹ 2,800
- (D) ₹ 3,500

150. If a train runs at 40 km/h, it reaches its destination late by 11 minutes. But if it runs at 50 km/h, it is late by 5 minutes. Find the correct time for the train to complete its journey.

- (A) 20 minutes
- (B) 19 minutes
- (C) 25 minutes
- (D) 15 minutes