

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

QUESTION BOOKLET

SERIES IV

Subjects : General English, General Knowledge & Aptitude, General Awareness on Motor Vehicle, Motor Vehicle Act 1988

BOOKLET SERIAL NO.

404292

Marks : 350

Time : 2½ hours

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

INSTRUCTIONS TO CANDIDATES

1. This booklet contains **200 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen in following four parts:
Part-A-General English : 50 questions,
Part-B-General Knowledge & Aptitude : 50 questions,
Part-C- General Awareness on Motor vehicle : 50 questions,
Part-D- Motor Vehicle Act 1988 : 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. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ball Pen. OMR Answer Sheet without marking series/double series marking shall not be evaluated.

Example :

Supposing 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 Ball Point Pen only as below :-

(A) (B) (●) (D)

WHICH 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 :50

Each question carry 1 mark :

Directions : (Q. No. 1-5) In these questions, out of the four alternatives given, choose the one which is opposite in meaning to the underlined word.

1. The success of the department is the result of the efforts of his predecessor .

- a) progenitor b) precursor
- c) forerunner d) descendant

2. The arid soil is unsuitable for agricultural purposes.

- a) barren b) fertile
- c) dry d) sterile

3. The tropical weather of the plains suited her.

- a) torrid b) humid
- c) hot d) arctic

4. His kind deeds which went unnoticed made him an unsung hero.

- a) nameless b) celebrated
- c) anonymous d) noble

5. The zealous attitude of the sportsman made him popular.

- a) indifferent b) distasteful
- c) enthusiastic d) feverish

Directions : (Q. No. 6-10) In these questions, some of the sentences have errors and some have none. Find out which part of a sentence a, b, c, d has an error and select that part as an answer. If there is no error, then (d) is the answer.

6. How long have (a) / you been learning English ? (b) / Your accent is very good. (c) / No Error (d)

7. The matter will soon (a) / be dealt with (b) / Have you anything more to ask ? (c) / No Error (d)

8. How many pieces (a) / of watermelon can you (b) / eat at a time ? (c) / No Error (d)

9. Kindly inform us (a) / of any change (b) / in address during your stay here (c) / No Error (d)

10. Thanks are also due (a) / for all those working (b) / behind the scenes (c) / No Error (d)

Directions : (Q. No. 11-20) In the following questions, sentences are given with blanks to be filled in with an appropriate and suitable word or phrase . Four alternatives are suggested for each question. Choose the correct alternative out of the four .

11. The thieves hoped _____ their crime.

- a) to get away with
- b) to get away from
- c) to flee off
- d) to escape from

12. Either the children or the helper _____ the corridor.

- a) sweep b) sweeps
- c) will sweep d) will be sweeping

13. We will not begin the work _____ our conditions.

- a) until they have agreed to
- b) unless they have agreed with
- c) lest they agree to
- d) till they have agreed with

14. We have endured his tyranny _____

- a) since three years ago
- b) for three years now
- c) for three years long
- d) three years

15. He _____ a novel for the last two years, but he has not finished it yet.

- a) wrote b) is writing

c) writes

d) has been writing

16. We are much stronger than _____ at foot-
ball.

a) they

b) those

c) them

d) they are

17. _____ did you meet in the park yester-
day?

a) whom

b) who

c) what

d) where

18. Neither Jake _____ Jose seems to be ca-
pable of doing this.

a) or

b) and

c) but

d) nor

19. He shall be dismissed for _____.

a) neglecting duty

b) negligence of duty

c) neglecting his duties

d) negligence of all duty

20. Mangoes _____ should be thrown away.

a) that are over ripe

b) that have over ripe

c) which are over ripe

d) which is over ripe

**Directions : (Q. No. 21-30) Fill in the
blanks with the appropriate prepositions
from the options given :**

21. _____ being a painter, Rossetti was also
a poet.

a) along with

b) besides

c) apart from

d) in spite of

22. A brick has fallen _____ the well.

a) inside

b) off

c) in

d) into

23. The stream ran _____ a little tunnel.

a) through

b) from

c) inside

d) into

24. Hold it carefully _____ your thumb and
forefinger.

a) with

b) between

c) in

d) within

25. He hid a banknote _____ the pages of a
novel of Dickens.

a) within

b) inside

c) between

d) in

26. If you happen to come _____ my lost
papers, please let me know.

a) through

b) across

c) by

d) over

27. Lean it _____ the wall if you don't want
it to fall.

a) at

b) in

c) over

d) on

28. Her beautiful voice compensates _____
her short stature.

a) with

b) by

c) at

d) for

29. Can I depend _____ you not to be an-
gry with me for being late ?

a) on

b) upon

c) in

d) for

30. Let me assure you _____ my honest in-
tentions.

a) of

b) about

c) with

d) for

**Directions : (Q. No. 31-40) In these ques-
tions, four alternatives are given for the
given idiom / phrase. Choose the alterna-
tive which best expresses the meaning of
the given idiom / phrase.**

31. school of thought

a) a way of thinking that is opposed by many

b) a way of thinking that a number of people
share

c) a way of thinking that is imposed on every-
one

d) a way of thinking that is shared by a few

32. lamb to the slaughter

- a) a dangerous act that causes serious threat
- b) the act of being lead to a slaughter house
- c) someone who is going to do something dangerous without realising it
- d) useless sacrifice and violence

33. fight a losing battle

- a) a struggle that appears to be successful only for a while
- b) to fight only for the sake of fighting
- c) to try to do something that you'll probably never succeed in doing
- d) to fight with the same tactics of the opponent

34. in the fitness of time

- a) a time that is not bound by routine
- b) a time that is accurate as clockwork
- c) at the predestined or right time
- d) a time that is leisurely

35. have a wolf inside the stomach

- a) to be very hungry
- b) to have a bad stomach upset
- c) to have a craving for a particular food
- d) to give a false alarm

36. to darken one's door

- a) to visit
- b) to paint an entrance black
- c) a visit that is unpleasant
- d) a visit that is unwelcome

37. not get to first base

- a) to fail to make a successful start
- b) to fail at the negotiating table
- c) to fail to strike oil
- d) to fail to create an impression

38. light at the end of the tunnel

- a) a faint light indicating correct direction
- b) something that encourages
- c) something that shows one is nearly at the end of a difficult situation
- d) a flash of light in the dark causing one to heave a sigh of relief

39. rant and rave

- a) a long angry speech that is unpleasant
- b) to show one's anger by shouting or complaining loudly for a long time
- c) to protest loudly in public
- d) to shout aloud in order to catch somebody's attention

40. to go through the roof

- a) to rise or increase very quickly
- b) a temper that shoots instantly
- c) a rise or increase of something that is gradual
- d) a quick rise of something that soon comes down again

Directions : (Q. No. 41-50) In these questions, out of the four alternatives given, choose the one which best expresses the meaning of the underlined word.

41. Her docile manners won the hearts of many
- a) compliant
 - b) wilful
 - c) generous
 - d) brazen

42. The capital city was the centre, attracting many tourists
- a) periphery
 - b) concentre
 - c) edge
 - d) nucleus

43. His foolhardy nature was a cause of great worry.
- a) moronic
 - b) jovial
 - c) impulsive
 - d) mischievous

44. I could not stop admiring the lustre of the new table.
- a) robust
 - b) design
 - c) sheen
 - d) carvings

45. The audience listened to the mayor's speech with rapt attention.
- a) delighted
 - b) uninterested
 - c) intent
 - d) confounded

46. In spite of his advanced age he was still sprightly.
- a) sluggish
 - b) motivated
 - c) active
 - d) inactive

47. The temperamental nature of the officer affected his subordinates.

- a) stable
- b) calm
- c) erratic
- d) upheaval

48. The entire town was obliterated by the mighty army.

- a) wiped out
- b) deleted
- c) founded
- d) cancelled

49. The eloquence of the speaker revealed his wisdom.

- a) erudition
- b) articulateness
- c) inarticulateness
- d) elucidation

50. The tertiary sector of the economy comprises industry that deals with services.

- a) third in rank or importance
- b) most significant in rank or importance
- c) foremost in rank or importance
- d) last in rank or importance

PART - B - GENERAL KNOWLEDGE & APTITUDE

Marks : 100

Each question carries 2 marks :

51. 'Open Market Operations' is a part of

- a) Income Policy b) Fiscal Policy
- c) Labour Policy d) Credit Policy

52. The most extensive soil cover of India comprise

- a) Laterite soils b) Black soils
- c) Alluvial soils d) Marshy soils

53. The Information Technology Capital of India is

- a) Hyderabad b) Bengaluru
- c) Mumbai d) Chennai

54. The largest flightless bird which can run at a great speed is

- a) Penguin b) Kiwi
- c) Ostrich d) Emu

55. Which one of the following rivers falls in a landlocked sea ?

- a) St. Lawrence b) Niger
- c) Volga d) Danube

56. 2019 Cricket World Cup was held in

- a) New Zealand b) India
- c) England d) South Africa

57. Which state in India recently got its first "child-friendly" police station ?

- a) Telengana b) Meghalaya
- c) Mizoram d) Karnataka

58. The book entitled "Indian Struggle" on Indian National Movement was written by

- a) Subhash Chandra Bose
- b) Patabhi Sitaramaiya
- c) Jawahar lal Nehru
- d) None of the above

59. How many members are there in United Nations ?

- a) 189 b) 191
- c) 192 d) 193

60. The first Nuclear Security Summit was held on 12-13 April, 2010 at

- a) Moscow b) Washington

c) Beijing

d) Singapore

61. Who among the following has won the Nobel prize at least twice ?

- a) Winston Churchill b) Madam Curie
- c) Octavio Paz d) George Choupak

62. Who is called of the "Nightingale" of India?

- a) Vijay Lakshmi Pandit b) Sarojini Naidu
- c) Aruna Asaf Ali d) Sucheta Kriplani

63. Chinese Pilgrim who visited India during Harsha Vardhan's period was

- a) Fa - hien b) I'tsing
- c) Nishka d) Hiuen - T - Sang

64. As per the Constitution of India, a citizen of India should not be less than _____ of age to become the President of India.

- a) 30 years b) 35 years
- c) 40 years d) 50 years

65. Ad hoc judges are appointed on the Supreme Court when _____

- a) Some judges go on long live
- b) No one is available for permanent appointment
- c) There is an abnormal increase in cases pending before the court
- d) There is no quorum of the judges available to hold any session of the court

66. The First General Elections to the Lok Sabha were held in

- a) 1949 b) 1952
- c) 1950 d) 1954

67. Which one of the following is neither an element nor a compound ?

- a) Air b) Glucose
- c) Gold d) Water

68. Insulin controls the metabolism of

- a) Hormones b) Protein
- c) Sugars d) Fats

69. Instrument which measures the intensity of solar radiation is called

- a) Energymeter b) Solarmeter

- c) Spectrometer d) Solarimeter

70. "World Teachers Day" is celebrated every year on

- a) 5th September b) 5th October
c) 11th November d) 31st December

71. The first Governor General of India was appointed under the provisions of the Act of

- a) 1773 b) 1784
c) 1833 d) 1858

72. The sale proceeds of the Government Bonds come under the budget head of

- a) Revenue Receipts b) Current Expenditure
c) Capital Outlay d) Capital Receipts

73. In the visible spectrum, the colour having the shortest wavelength is

- a) Violet b) Blue
c) Red d) Yellow

74. The density of water is maximum at

- a) 0°C b) 4°C
c) 25°C d) 100°C

75. Metal tea pots have wooden handles because

- a) Wood is bad conductor of heat
b) It prevents electric shock
c) It gives beauty to the pots
d) It is hygienic

Each question carries 2 marks :

76. Shyam is taller than Pradeep and Pradeep is equal to Anurag. But Anand is smaller than Suresh, who is equal to Anurag. If Pradeep is taller than Praveen, who is the tallest of all ?

- a) Pradeep b) Praveen
c) Suresh d) Shyam

77. If A's income is 25% less than B's income, by how much percent is B's income more than that of A ?

- a) 25% b) 30%
c) $33\frac{1}{3}\%$ d) $66\frac{2}{3}\%$

78. The ninth term of the sequence 0, 3, 8, 15, 24, 35, is _____

- a) 63 b) 70

- c) 80 d) 99

79. Two numbers are in the ratio 3 : 4. Their L.C.M. is 84. The greater number is _____

- a) 21 b) 24
c) 28 d) 84

80. If '+' means 'divided by' ; '-' means 'multiplied by' '×' means 'minus' and '÷' means 'plus' ; then $8 + 6 - 2 \div 4 \times 4 = ?$

- a) 12 b) $\frac{2}{3}$
c) $-\frac{52}{9}$ d) none of these

81. What is always found in factories ?

- a) Chimney b) Electricity
c) Workers d) Sellers

82. While standing on his head (upside down), Shashank's face is towards South. In which direction will his right hand point ?

- a) North - East b) North
c) East d) South - East

83. A man said to a lady, "The son of your only brother is the brother of my wife". What is the lady to the man.

- a) Mother b) Sister
c) Sister of father-in-law d) Grandmother

84. If BOX is coded as CDPQYZ, what will be the last two letters of word in the same code for HERO ?

- a) N, M b) M, N
c) P, Q d) Q, P

85. If TOM = 48 and DICK = 27, then HARRY = ?

- a) 46 b) 50
c) 70 d) 67

86. If Dust is called Air, Air is called Fire, Fire is called water, water is called colour, colour is called Rain and Rain is called Dust, where do Fish live?

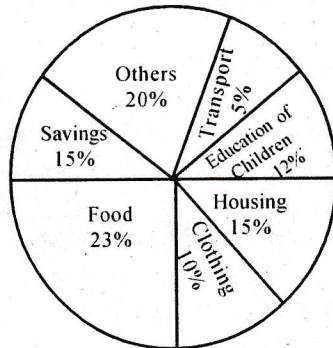
- a) Dust b) Water
c) Colour d) Fire

87. If the radius of a sphere is increased by 2m, its surface area is increased by 704m². What is the radius of the original sphere ?

- a) 16m b) 15m
c) 14m d) 13m

Directions : (Q.No.88-92) The pie-chart given below, shows the expenditure on various items and savings of a family during the year 2017. Study the pie-chart and answer the question based on it.

Percentage of Money spent on Various Items and Savings by a family During 2017



88. If the total income of the family for the year 2017 was Rs.1,50,000 then the difference between the expenditures on housing and transport was

- a) Rs.15,000 b) Rs.10,000
c) Rs.12,000 d) Rs.7,500

89. Maximum expenditure of the family other than on food, was on

- a) Housing b) Clothing
c) Others d) Education of Children

90. The savings of the family for the year were equal to the expenditure on

- a) Food b) Housing
c) Education of Children d) Clothing

91. The percentage of the income which was spent on clothing, education of children and transport together is

- a) 17 b) 20
c) 22 d) 27

92. If the total income of the family was Rs.1,50,000 then the money spent on food was

- a) Rs.20,000 b) Rs.23,000
c) Rs.30,000 d) Rs.34,500

Directions : Read the following distribution and answer Q.No. 93-97, based on the same.

A, B, C, D, E and F are members of a club. There are two married couples in the group. A is the brother of D's husband. C is the president of All India Working Women's Association. F, a Sitarist, is a bachelor. B's wife is not a member of the club. Four of them belong to the same family. B and F are colleagues in the same organisation.

93. How is F related to B ?

- a) Brother b) Nephew
c) Father d) Data inadequate

94. Which of the following groups consists of members of the same family ?

- a) ABED b) BCDE
c) ADEF d) BDEF

95. How many married male members are there in the group ?

- a) One b) Two
c) Three d) Four

96. Who is married to D ?

- a) A b) B
c) E d) F

97. Who is married to C ?

- a) A b) B
c) A or B d) E

98. Which number is wrong in the given series?

1, 9, 25, 50, 81

- a) 1 b) 25
c) 50 d) 81

99. If HOSPITAL, is written as 32574618 in a certain code, how would POSTAL be written in that code ?

- a) 752618 b) 725618
c) 725168 d) 725681

100. If $841 = 3$; $633 = 5$; $425 = 7$, then $217 = ?$

- a) 6 b) 7
c) 8 d) 9

PART - C -GENERAL AWARENESS ON MOTOR VEHICLE

Marks :100

Each question carries 2 marks :

101. Mixing of fuel in case of a diesel engine occurs in the

- a) Inlet manifold b) Engine cylinder
- c) Injector d) Common rail

102. A diesel engine having full of smoke in the exhaust may be due to

- a) Low compression and rich fuel injection
- b) Water in the fuel and excessive fuel pump compression
- c) Dirty filter and too much oil in the crank case
- d) All of the above

103. The ignition temperature of diesel fuel is about

- a) 100°C b) 250°C
- c) 400°C d) 700°C

104. The compression ratio of a petrol engine is nearly

- a) 4 : 1 b) 8 : 1
- c) 15 : 1 d) 20 : 1

105. The ignition in a spark ignition (SI) engine takes place when the piston is

- a) Exactly at the TDC after compression stroke
- b) Approaching the TDC on its compression stroke
- c) Leaving the TDC just after compression stroke
- d) Approaching the BDC on its power stroke

106. An engine is supercharged essentially for

- a) Fuel economy
- b) Increase efficiency
- c) Knock-free engine
- d) Reduce weight and bulk of the engine

107. Pick the wrong answer in the following with regard to knocking in a petrol engine

- a) Overloading
- b) Advance sparking
- c) Carbon deposition
- d) Overheating of spark plug

108. The firing order for an in-line four cylinder I.C. engine is

- a) 1-2-3-4 b) 1-2-4-3
- c) 1-3-4-2 d) 1-4-2-3

109. The full form of MPFI is

- a) Mixed petrol fuel injection
- b) Mixed-programmed fuel induction
- c) Multi-power fixed injection
- d) Multi-point fuel injection

110. Basically, common rail direct injection (CRDI) systems are used in

- a) Petrol engines b) Diesel engines
- c) Both (a) and (b) d) CNG engines

111. Detonation is said to take place in the engine when

- a) High pressure waves are setup
- b) Temperature rise is too high
- c) Unexpected sudden acceleration is imparted
- d) Combustion takes place too early

112. A stoichiometric air-fuel ratio means

- a) Chemically correct mixture
- b) Lean mixture
- c) Rich mixture for idling
- d) Rich mixture for overloads

113. Which fuel has an octane rating of 100 ?

- a) Iso-octane b) Normal heptanes
- c) Methyl alcohol d) Ethyl fluid

114. Which of the following automobile exhaust gas pollutants is a major cause of photochemical smog ?

- a) Carbon monoxide b) NO_x
- c) SO_x d) Hydrocarbons

115. Most commonly used lubricant in automobile engines is

- a) Vegetable oil b) Animal oil
- c) Mineral oil d) Synthetic oil

116. The timing belt is attached to the camshaft pulley and the

- a) Timing belt drive pulley
- b) Radiator fan pulley
- c) Distributor shaft
- d) Alternator pulley

117. In which type of internal combustion engine, air-fuel mixture is ignited without the use of spark plug ?

- a) S.I. engine b) C.I. engine
- c) Both (a) and (b) d) None of the above

118. The operation sequence of an Otto cycle engine is

- a) Suction, power, compression and exhaust
- b) Suction, compression, exhaust and power
- c) Suction, power, exhaust and compression
- d) Suction, compression, power and exhaust

119. Which part of an I.C. engine is not common between a petrol engine and a diesel engine ?

- a) Camshaft b) Alternator
- c) Fuel injector d) Connecting rod

120. Morse test is conducted only on

- a) High speed engines
- b) Single cylinder engines
- c) Multi-cylinder engines
- d) Variable speed engines

121. If the intake air temperature of an I.C. engine increases, its efficiency will

- a) Increase b) Decrease
- c) Be minimum d) Remain same

122. The purpose of a cylinder head gasket in any I.C. engine is to prevent the

- a) Engine oil from going into combustion chamber
- b) Dirty impurities from the cylinder head lubricating oil
- c) Combustion gases from leaking between cylinder block and cylinder head
- d) Engine coolant from leaking

123. The ignition coil in an automobile acts as

- a) Step-up transformer b) Supply switch
- c) Voltage rectifier d) Voltage synchronizer

124. The differential in automobiles performs the function of permitting

- a) Rear wheels to rotate independently
- b) Rear wheels to have flexibility of relative speed
- c) Rear wheels to rotate in constant speed
- d) Rear axles to have same speed

125. Which part of the engine is directly driven

by the starter motor ?

- a) Camshaft b) Crankshaft
- c) Connecting rod d) Flywheel

126. The basic automobile structure consists of frame, axles, wheels and

- a) Suspension b) Brakes
- c) Steering d) Differential

127. Which of the following is not a part of automobile transmission system ?

- a) Clutch b) Gearbox
- c) Axles d) Propeller shaft

128. The pressure plate is held against the clutch plate by

- a) Struts b) Springs
- c) Levers d) Thrust bearings

129. A universal joint allows the propeller shaft to

- a) Change inclination
- b) Bend sideways
- c) Change length
- d) Transfer torque at an angle

130. Compared to a rear wheel drive, the front wheel drive

- a) Has better riding performance
- b) Needs longer propeller shaft
- c) Has greater skidding tendency
- d) Has increased traction effort

131. Shock absorber in an automobile is a device meant for

- a) Energy increase b) Energy release
- c) Energy dissipation d) Energy absorption

132. Pick the wrong answer which is not valid in respect of disc brakes when compared to drum brakes ?

- a) Light in weight
- b) Complexity of design
- c) Better anti-fading characteristics
- d) More uniform wear of friction pads

133. The tilt of the car wheels from the vertical is called

- a) Camber b) Castor
- c) Yaw d) Slip angle

134. Master cylinder in conventional automobile is associated with

- a) Steering b) Braking
- c) Lubrication d) Suspension

135. Fins are provided around the engine cylinder in two wheeler bikes and scooters to

- a) Increase engine strength
- b) Protect cylinder from damage
- c) Get better cooling
- d) Obtain higher efficiency

136. Catalytic converters are used in I.C. engine vehicles for

- a) Increasing engine efficiency
- b) Reducing exhaust noise
- c) Obtaining better engine performance
- d) Obtaining less harmful exhaust gas

137. As need arises, the ABS in vehicles is activated due to

- a) Wheel speed sensors
- b) Camshaft speed sensors
- c) Solenoid hydraulic valves
- d) Toe-in tilt indicators

138. The full form of ECU used in modern vehicles is

- a) Electronic computer unit
- b) Electronic control unit
- c) Electrical circuit unit
- d) Exhaust control unit

139. On-board tachometers are used in four wheel vehicles to display the

- a) Speed of the front wheels
- b) Speed of the flywheel
- c) RPM of camshaft
- d) RPM of the crankshaft

140. The process of breaking up fuel into fine droplets by spraying is called

- a) Vaporisation b) Atomisation
- c) Ionisation d) Carburetion

141. What is the main shaft of an I.C. engine that controls the movement of the pistons ?

- a) Front axle b) Crankshaft
- c) Camshaft d) Drive shaft

142. Stroke of an I.C. engine equals

- a) Twice the diameter of the piston
- b) Half the crank radius
- c) The crank radius
- d) Twice the crank radius

143. The working cycle in a two stroke engine is completed in

- a) One revolution of the crankshaft
- b) Two revolutions of the crankshaft
- c) Four revolutions of the crankshaft
- d) Revolutions equivalent to number of cylinders

144. Compression ratio is the ratio between

- a) Cylinder volume and swept volume
- b) Cylinder volume and clearance volume
- c) Clearance volume and cylinder volume
- d) Cylinder volume and piston volume

145. For a practical petrol engine working on Otto cycle, the compression ratio usually lies in the range

- a) 16-22 b) 10-15
- c) 6-8 d) 2-5

146. The compression ratio for a practical diesel engine usually lies in the range of

- a) 2-5 b) 6-8
- c) 10-15 d) 16-22

147. The principle of scavenging of air involves

- a) Use of air for forcing the burnt gases out of the cylinder
- b) Air insertion into cylinder under compression
- c) Supplying air for cooling the engine cylinder
- d) Use of burnt gases to run turbocharger

148. Under ideal conditions, thermal efficiency of an Otto cycle is the ratio between

- a) Work done and BHP
- b) BHP and work done
- c) Work done and Heat input
- d) Heat input and work done

149. Radiator of an automobile is a heat exchanger which can bring down the temperature of the coolant faster due to a fan and

- a) Air conditioning system
- b) Its mounting in front of the engine
- c) Distribution of coolant in horizontal tubes
- d) All of the above

150. The purpose of thermostat in an engine cooling system is to

- a) Prevent the coolant from boiling
- b) Allow the engine to warm up quickly
- c) Pressurise the system to raise the boiling point
- d) Indicate the temperature of coolant to the driver

PART - D - MOTOR VEHICLE ACT 1988

Marks :100

Each question carries 2 marks :

151. Consider the following statements :

An application for the permit shall be made to-
A. The Regional Transport Authority of the region in which it is proposed to use the vehicle or vehicles ; or

B. If it is proposed to use the vehicle or vehicles in two or more regions lying within the same State, to the Regional Transport Authority of the region in which the major portion of the proposed route or area lies ; or

C. In case the portion of the proposed route or area in each of the regions is approximately equal, to the Regional Transport Authority of the region in which it is proposed to keep the vehicle or vehicles.

Which of the above statement(s) is / are correct ?

- a) A and B b) B and C
- c) A, B and C d) None of the above

152. Which one of the following is not an essential particular of an application for a permit in respect of a 'stage carriage' ?

- a) The route or routes or the area or areas to which the application relates ;
- b) The type and seating capacity of each such vehicle ;
- c) The minimum and maximum number of daily trips proposed to be provided and the time table of the normal trips ;
- d) Such other information as may deem fit to the owner of the vehicle.

153. For the purpose of the permit under Motor Vehicles Act, 1988, "Trip" means :

- a) Single journey from one point to another
- b) Return journey shall be deemed to be a separate journey
- c) Both (a) and (b)
- d) None of the above

154. The Regional Transport Authority need

not to consider which one of the following fact before issuing the 'reserve stage carriage permits' :

- a) Financial stability of the applicant ;
- b) Satisfactory performance as a stage carriage operator including payment of tax if the applicant is or has been an operator of stage carriage service ;
- c) Caste and religion of the owner ;
- d) Such other matters as may be prescribed by the State Government ;

155. Consider the following statements :

If two or more application are filed for reserve stage carriage permit and all the conditions under section 71(3) (d) are equal, the preference shall be given to the application for permit from

- A. State Transport undertaking ;
- B. Co-operative societies registered or deemed to have been registered under any enactment for the time being in force ;
- C. Ex-servicemen

Which of the above statement(s) is / are correct ?

- a) A and B b) A and C
- c) B and C d) A, B and C

156. 'Road Transport Service' means a service of motor vehicles carrying :

- a) Passengers ; or
- b) Goods ; or
- c) Both by road for hire or reward ;
- d) All of the above

157. The Motor Vehicle Act, 1988 is extended to

- a) The whole of India excluding J & K
- b) The whole of India
- c) The whole of India excluding six schedule areas of the Constitution
- d) All the states excluding Union Territories

158. The Motor Vehicle Act, 1988 lays down the meaning of "permit" in

- a) Sec. 2 (29)
- b) Sec. 2 (30)
- c) Sec. 2 (31)
- d) Sec. 2 (32)

159. "Driver" means

- a) A man who drives the car
- b) A man who controls the vehicle
- c) A man who acts as a steering man of the vehicle
- d) None of the above

160. Match the List I with List II and select the correct answer using the codes given below the lists :

List I

List II

- | | |
|------------------------|------------------------------------------------------------------------|
| A. Articulated vehicle | 1. A motor vehicle which carries passengers for hire on one time basis |
| B. Contract carriage | 2. A motor vehicle to which a semi-trailer is attached |
| C. Invalid carriage | 3. A vehicle which is specially designed for the use of disabled |
| D. Motor car | 4. Any motor vehicle other than a transport vehicle |

- a) A-1; B-2; C-3; D-4
- b) A-2; B-1; C-3; D-4
- c) A-4; B-3; C-1; D-2
- d) A-3; B-4; C-2; D-1

161. "Unladen weight" means

- a) The weight of a vehicle including all equipment ordinarily used with the vehicle
- b) The weight of a vehicle excluding all equipment ordinarily used with the vehicle
- c) The weight of a vehicle including all equipment ordinarily used with the vehicle, but excluding the weight of a driver or attendant
- d) The weight of a vehicle excluding all equipment ordinarily used with the vehicle, but including the weight of a driver or attendant

162. "Tourist vehicle" is defined in

- a) Sec. 2 (41)
- b) Sec. 2 (43)
- c) Sec. 2 (45)
- d) Sec. 2 (47)

163. "Weight" means

- a) Total weight of a vehicle
- b) Total weight transmitted by the wheels
- c) Total weight transmitted for the time being by wheels of a vehicle
- d) Total weight transmitted for the time being by wheels of a vehicle to the surface on which the vehicle rests

164. "Necessity of driving license" is made mandatory under

- a) Sec. 3
- b) Sec. 4
- c) Sec. 5
- d) Sec. 6

165. A person can drive a motor vehicle in any public place who holds

- a) An effective driving license authorizing him to drive
- b) His driving license specifically entitles him so to do
- c) Both (a) and (b)
- d) None of the above

166. Which of the following section of the Motor Vehicle Act, 1988, defines age limit in connection with the driving of various motor vehicles in public places

- a) 2
- b) 3
- c) 4
- d) 5

167. No person shall be granted a learner's license to drive a transport vehicle unless he holds a driving license to drive a light motor vehicle for at least

- a) 3 months
- b) 6 months
- c) 9 months
- d) 1 year

168. Cylinder block construction by monoblock is preferred to individual cylinder construction because of?

- a) Compact engine size
- b) Easy manufacturing operations
- c) Better water sealed joints
- d) All of the above

169. Which of the following is not correct ?

- a) No owner of a motor vehicle shall use or permit the use of the vehicle as a transport vehicle in any public place until he is authorized to use the vehicle in that place in which the vehicle is being used by Regional or State Transport Authority or any prescribed authority
- b) Stage carriage permit shall, subject to any conditions that may be specified in the permit, authorize the use of the vehicle as a contract carriage
- c) Stage carriage permit may, subject to any conditions that may be specified in the permit, authorize the use of the vehicle as a goods carriage either when carrying passengers or not
- d) Goods carriage permit shall, subject to any conditions that may be specified in the permit, authorize the use of the vehicle as a contract carriage

170. Consider the following statements-

- A. There is no necessity of permits for any transport vehicle owned by the Central Government or a State Government and used for Government purposes unconnected with any commercial enterprise ;
- B. Provisions of necessity of permits does not apply to any transport vehicle used solely for police, fire brigade or ambulance purposes ;

Which of the above statements is / are correct?

- a) A and B
- b) A alone
- c) B alone
- d) None of the above

171. In which one of the following cases the State Government have powers to issue the directions to State Transport Authority and Regional Transport Authority to control road transport ?

- a) Fixing of fares and freights for stage carriages, contract carriages and goods carriages
- b) Prohibition or restriction, subject to such conditions as may be specified in the directions, of the conveying of long distance goods traffic generally, or of specified classes of goods by goods carriages
- c) Any other matter which may appear to the

State Government necessary or expedient for giving effect to any agreement entered into with the Central Government or any other State Government or the Government of any other country relating to the regulation of motor transport generally, and in particular to its co-ordination with other means of transport and the conveying of long distance goods traffic

- d) All of the above

172. Who shall constitute State Transport Authority to exercise and discharge the powers and functions specified in sub-section (3) of section 68

- a) The Central Government
- b) The State Government
- c) Both (a) and (b)
- d) None of the above

173. A person can be the Chairman of the State Transport Authority or Regional Transport Authority who

- a) Has has judicial experience
- b) Has experience as an appellate or a revisional authority
- c) Has experience as an adjudicating authority competent to pass any order
- d) All of the above

174. State Transport Authority and Regional Transport Authority may not consist members more than

- a) 4 and 2
- b) 5 and 3
- c) 6 and 4
- d) 8 and 6

175. Which of the following does not fall within the purview of the powers and functions of State Transport Authority and Regional Transport Authority ?

- a) To co-ordinate and regulate the activities and policies of the Regional Transport Authorities, if any, of the State ;
- b) To perform the duties of a Regional Transport Authority where there is no such Authority and, if it thinks fit or if so required by a Regional Transport Authority, to perform those duties in respect of any route common to two or more regions.

- c) To discharge such other functions as may be prescribed
- d) To discharge any other function which it may deem fit

176. Assertion (A) : The State Government may formulate and decide to run and operate road transport service in any particular area of the State excluding other persons completely or partially as it deems fit.

Reason (R) : It is in the interest of the public to operate an efficient, adequate, economical and properly coordinated road transport service.

- a) Both A and R are true and R is the correct explanation of A
- b) Both A and R are true and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

177. In what circumstances a State transport undertaking may operate additional services in the public interest for the conveyance of passengers on special occasions such as to and from :

- a) Fairs
- b) Religious gatherings
- c) Both (a) and (b)
- d) None of the above

178. The State Government may, at any time, if it considers necessary, in the public interest so to do, modify any approved scheme after giving :

- a) The State transport undertaking an opportunity of being heard in respect of the proposed modification ; and
- b) Any other person who, is likely to be affected by the proposed modification an opportunity of being heard in respect of the proposed modification
- c) Both (a) and (b)
- d) None of the above

179. Match the List I with List II and select the correct answer using the codes given below the lists :

List I

List II

- | | |
|--------------------------------------------------------------------------------------------------------------|----------------|
| A. Preparation and publication of proposal regarding road transport service of a State transport undertaking | 1. Section 102 |
| B. Objections to the proposal | 2. Section 100 |
| C. Operation of additional services of a State transport undertaking in certain circumstances | 3. Section 99 |
| D. Cancellation of modification of scheme | 4. Section 101 |

- a) A-1; B-2; C-3; D-4
- b) A-2; B-1; C-3; D-4
- c) A-3; B-2; C-4; D-1
- d) A-4; B-3; C-2; D-1

180. Which of the following body was constituted as an autonomous institution to regulate and develop the insurance industry in India ?

- a) IRDA
- b) Life Insurance Corporation of India
- c) Bima group
- d) Private insurers

181. Match the List I with List II and select the correct answer using the codes given below the lists :

List I

List II

- | | |
|----------------------------------------------|--------------|
| A. Necessity for driving license | 1. Section 4 |
| B. Age limit for driving license | 2. Section 3 |
| C. Responsibility of owners | 3. Section 5 |
| D. Restriction on holding of driving license | 4. Section 6 |

- a) A-1; B-2; C-3; D-4
- b) A-2; B-1; C-3; D-4
- c) A-3; B-2; C-4; D-1
- d) A-4; B-3; C-2; D-1

182. The licensing authority may refuse to issue a conductor's license

- a) If the applicant does not possess the minimum educational qualification
- b) If the medical certificate produced by the

- applicant discloses that he is physically unfit to act as a conductor ; and
 c) If any previous conductor's license held by the applicant was revoked
 d) All the above

183. Who among the following can make rules relating to 'speed governors' ?

- a) The Central Government
 b) The State Government
 c) Both (a) and (b)
 d) None of the above

184. Standards for the emission of air pollutants in the vehicles is decided by

- a) The Central Government
 b) The State Government
 c) Both (a) and (b)
 d) None of the above

185. No person shall drive or cause or allow to be driven in any public place any motor vehicle which is not fitted with

- a) Pneumatic tyres b) Radial tyres
 c) Tubeless tyres d) Vulcanized tyres

186. No person shall drive or cause or allow to be driven in any public place any motor vehicle or trailer

- a) The unladen weight of which exceeds the unladen weight specified in the certificate of registration of the vehicle
 b) The laden weight of which exceeds the gross vehicle weight specified in the certificate of registration
 c) Both (a) and (b)
 d) None of the above

187. If any person accidentally causes any damage to a traffic sign as renders it useless for the purpose for which it is placed or erected under this section, he shall report the circumstances of the occurrence to a police officer or at a police station as soon as possible, and in any case within

- a) Twelve hours of the occurrence
 b) Twenty-four hours of the occurrence
 c) Forty-eight hours of the occurrence

- d) Seventy-two hours of the occurrence

188. Every driver of a motor vehicle shall drive the vehicle in conformity with any indication given by

- a) Mandatory traffic signs ;
 b) In conformity with the driving regulations made by the Central Government ; and
 c) Comply with all directions given to him by any police officers for the time being engaged in the regulation of traffic in any public place
 d) All of the above

189. Who can determine the places at which motor vehicles may stand either indefinitely or for a specified period of time and the places at which public service vehicles may stop for a longer time than is necessary for the taking up and setting down of passengers :

- a) Central Government
 b) State Government
 c) State Government or any authority in consultation with the local authority
 d) State Transport Authority

190. Consider the following statements :

- A. No person driving or in charge of a motor vehicle shall carry any person or permit any person to be carried on the running board or otherwise than within the body of the vehicle.
 B. No person shall travel on the running board or on the top or on the bonnet of a motor vehicle.

Which of the above statement(s) is / are correct ?

- a) Only A b) Only B
 c) Both A and B d) Neither A nor B

191. "Ticket" includes :

- a) Single ticket b) Return ticket
 c) Season ticket d) All of the above

192. On which of the following grounds a conductor's license can be revoked by the licensing authority

- a) Disease which is likely to render him permanently unfit

- b) Disability
- c) Both (a) and (b)
- d) None of the above

193. Match the List I with List II and select the correct answer using the codes given below the lists :

List I

List II

- | | |
|-----------------------------------------------|---------------|
| A. Revocation of conductor's license | 1. Section 33 |
| B. Refusal of conductor's license and appeals | 2. Section 32 |
| C. Power of licensing authority to disqualify | 3. Section 34 |
| D. Power of court to disqualify | 4. Section 35 |

- a) A-1; B-2; C-3; D-4
- b) A-2; B-1; C-3; D-4
- c) A-3; B-2; C-4; D-1
- d) A-4; B-3; C-2; D-1

194. Which one of the following acts does not fall within the powers of the State Government?

- a) The appointment, jurisdiction, control and functions of licensing authorities and other prescribed authorities
- b) The minimum educational qualifications of conductors ; their duties and functions and the conduct of persons to whom conductor's licenses are issued
- c) The form of application for conductor's licenses or for renewal of such licenses and the particulars it may contain
- d) All of the above

195. In pursuance of an approved scheme, the State transport undertaking may apply for the following permits :

- a) Stage carriage
- b) Goods carriage
- c) Contract carriage
- d) All of the above

196. Which one of the following is not correct?

- a) Where, in exercise of the powers conferred

by clause (b) or clause (c) of sub-section (2) of section 103, any existing permit is cancelled or the terms thereof are modified, the holder of the permit shall be paid compensation by the State or undertaking

b) No compensation shall be payable on account of the cancellation of any existing permit or any modification of the terms thereof, when a permit for an alternative route or area in lieu thereof has been offered by the State Transport Authority or the Regional Transport Authority, as the case may be and accepted by the holder of the permit

c) No compensation shall be payable on account of the refusal to renew a permit under clause (a) of sub-section (2) of section 103

d) No compensation shall be paid to the holder of the permit in any case

197. Consider the following statements :

The State Government may make the rules for the purpose of carrying into effect the provisions of Chapter VI

- A. The form in which any proposal regarding a scheme may be published under section 99 ;
 - B. The manner in which objections may be filed under section (1) of section 100 ;
 - C. The manner in which objections may be considered and disposed of under sub - section (2) of section 100 and the form in which any approved scheme may be published under sub-section (3) of section 100 ;
- Which of the above statement(s) is / are correct ?

- | | |
|------------|---------------|
| a) A and B | b) A and C |
| c) B and C | d) A, B and C |

198. Who can authorize the removal by a towing service of an abandoned or unattended vehicle on a public place for more than ten hours?

- a) State Transport Authority
- b) Regional Transport Authority
- c) Police Officer having Jurisdiction
- d) Local Authority of the area

199. 'Protective headgear' means a helmet

which-

- a) By virtue of its shape, material and construction, could reasonably be expected to afford to the person driving or riding on a motor cycle a degree of protection from injury in the event of an accident ; and
- b) Is securely fastened to the head of the wearer by means of straps or other fastenings provided on the headgear.
- c) Both (a) and (b)
- d) Neither (a) nor (b)

200. Who is liable to pay compensation where death or permanent disablement of any person has resulted from an accident arising out of the use of a motor vehicle ?

- a) Owner
- b) Driver
- c) Conductor
- d) None of the above
