



Series
B

CODE : BEM – 26
Write here Roll Number and Answer Sheet No.

Question Booklet Sl. No.

Roll No.

Answer Sheet No.

Duration : 2 Hours

Total Marks : 200

Declaration by Invigilator :
I Certify that I have checked that the Roll Number and the Answer Sheet Number written by the Candidate on the question paper and the OMR Sheet are correct and the Answer Sheet Number matches the Question Booklet Number exactly.

Signature of the Invigilator with Name

Declaration by Candidate :
I undertake not to employ any unfair means in this exam. I have checked the Question Booklet Number and the Answer Sheet Number and both are identical and have been correctly entered by me wherever indicated.

Signature of the Candidate with Name

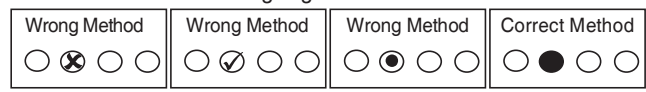
Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS TO CANDIDATES

- The Roll No. is a 7 digit No., the candidate needs to circle the Roll No. in the Answer Sheet.
- The appropriate Circle should be shaded for Roll No. This should be done carefully because only the shaded circles are scanned.
- Valuation of Answer Sheet will be done on the computer. Candidate should not make any stray marks on the Answer Sheet, tamper with or mutilate it. Otherwise it will not be evaluated.
- Please check all the pages of the Booklet carefully. In case of any defect, please ask the Invigilator for replacement of the Booklet.
- You must not tear off or remove any sheet from this Booklet. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- All questions are compulsory. Q. No. 1 to 40 carry 2.5 marks each and Q. No. 41 to 90 carry 2 marks each.
- There is no negative marking for incorrect answers.
- This Booklet contains 90 questions. Candidates must note that there will be 5 Sections in the question paper :

Sections	Test Components	No. of Questions	Page No.
A	General Awareness	1-10	5 – 6
B	General Intelligence and Reasoning Ability	11-20	7 – 9
C	Arithmetical and Numerical Ability	21-30	10 – 11
D	Test of English Language and Comprehension	31-40	12 – 13
E	Technical Paper	41-90	14 – 23

- Use of Calculator/Palmtop/Laptop/Other Digital Instrument/Mobile/Cell Phone/Pager is **not** allowed.
- Candidates found guilty of misconduct/using unfair means in the Examination Hall will be liable for appropriate penal/legal action.
- No Rough Work is to be done on the Answer Sheet and only single OMR Answer Sheet will be provided.**
- This booklet contains 24 pages.
- Directions :** Each question or incomplete statement is followed by four alternative suggested answers or completions. In each case, you are required to select the one that correctly answers the question or completes the statement and blacken (●) appropriate circle a, b, c or d by Black Ball-Point Pen provided by the Board against the question concerned in the Answer Sheet.
- Mark your answer by shading the appropriate circle against each question. The circle should be shaded completely without leaving any space. The correct method of shading is given below.



The Candidate must mark his/her response after careful consideration, as it is not possible to change the response once it is marked.

- There is only one correct answer to each question. You should blacken (●) the circle of the appropriate column, viz., a, b, c or d. If you blacken (●) more than one circle against any one question, the answer will be treated as wrong.
- Use the space for rough work given at the beginning of the Question Booklet only and not on the Answer Sheet.
- You are NOT required to mark your answers in this Booklet. All answers must be indicated in the Answer Sheet only.**

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SECTION – A
(General Awareness)

1. A Lunar Eclipse occurs when
 - (a) The Moon comes between the Sun and Earth
 - (b) The Sun comes between the Earth and Moon
 - (c) The Earth comes between the Sun and Moon
 - (d) The Moon moves away from the Earth

2. The Fourth Schedule of the Constitution of India deals with
 - (a) Distribution of legislative powers
 - (b) Forms of oath and affirmation
 - (c) Allocation of seats to States and Union Territories in the Rajya Sabha
 - (d) None of the above

3. Which is the biggest planet in our solar system ?
 - (a) Earth
 - (b) Mars
 - (c) Saturn
 - (d) Jupiter

4. Who was the Chairman of the Drafting Committee of the Indian Constitution ?
 - (a) Dr. B. R. Ambedkar
 - (b) Dr. Rajendra Prasad
 - (c) Pt. Jawaharlal Nehru
 - (d) Sardar Vallabhbhai Patel

5. Who wrote the book 'Poverty and Un-British Rule in India' ?
 - (a) Dadabhai Naoroji
 - (b) Bal Gangadhar Tilak
 - (c) Gopal Krishna Gokhale
 - (d) Lala Lajpat Rai



6. The famous Eden Gardens Cricket Stadium is located in which city of India ?
- (a) Mumbai
 - (b) Chennai
 - (c) Kolkata
 - (d) Delhi
7. The Second Five-Year Plan (1956–1961) of India was based on whose model ?
- (a) P. C. Mahalanobis
 - (b) Jawaharlal Nehru
 - (c) Dr. B. R. Ambedkar
 - (d) None of the above
8. Water moves from the soil into root hair cells mainly by which process ?
- (a) Transpiration
 - (b) Active transport
 - (c) Osmosis
 - (d) None of the above
9. Arunachal Pradesh became a full-fledged State of India in which year ?
- (a) 1972
 - (b) 1985
 - (c) 1987
 - (d) 1991
10. Which feature of the Indian Constitution was adopted from the United Kingdom ?
- (a) Federal system
 - (b) Judicial review
 - (c) Single citizenship
 - (d) Written constitution



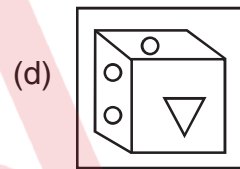
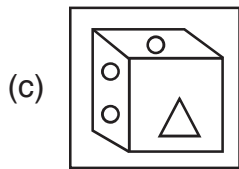
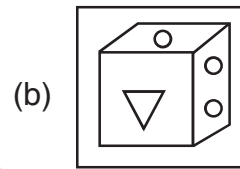
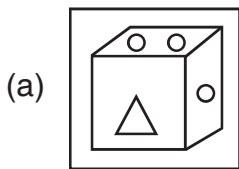
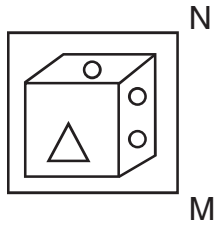
SECTION – B

(General Intelligence and Reasoning Ability)

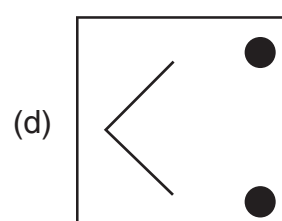
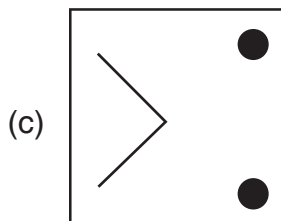
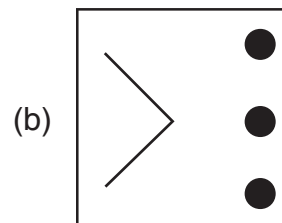
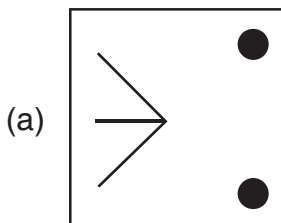
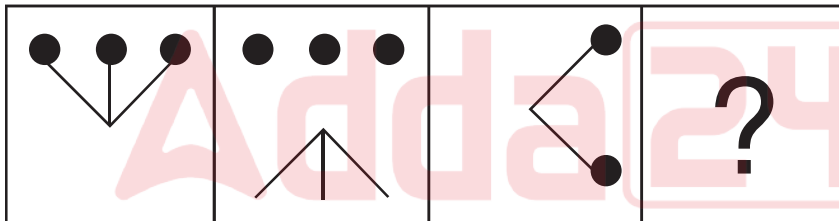
11. A girl is going towards West, then she turned left, then turned 90° in clockwise direction. In which direction is she going now ?
- (a) West (b) East
(c) North (d) None of these
12. In class of 45 students rank of Ayush is 15^{th} from top, then rank of Ayush from bottom is
- (a) 30 (b) 32
(c) 31 (d) 35
13. A particular relationship is given and another similar relationship has to be identified from the alternatives provided.
- India : New Delhi :: France : _____
- (a) Cairo (b) London
(c) Tokiyo (d) Paris
14. In the following question you have to select the option which has same relation as the pair of words in the question.
- Water : Drink
- (a) Light : Night
(b) Teach : Student
(c) Air : Breathe
(d) Food : Hunger
15. 'A + B' means that A is the father of B, 'A – B' means that A is the wife of B, 'A × B' means that A is the brother of B, 'A ÷ B' means that A is the mother of B and 'A = B' means that A is the sister of B. On the basis of this information, what does 'P + Q – R' means ?
- (a) P is the father-in-law of R
(b) P is the son of R
(c) P is the uncle of R
(d) P is the brother of R



16. Choose the correct mirror image of the given figure, if a mirror is placed on the line MN.



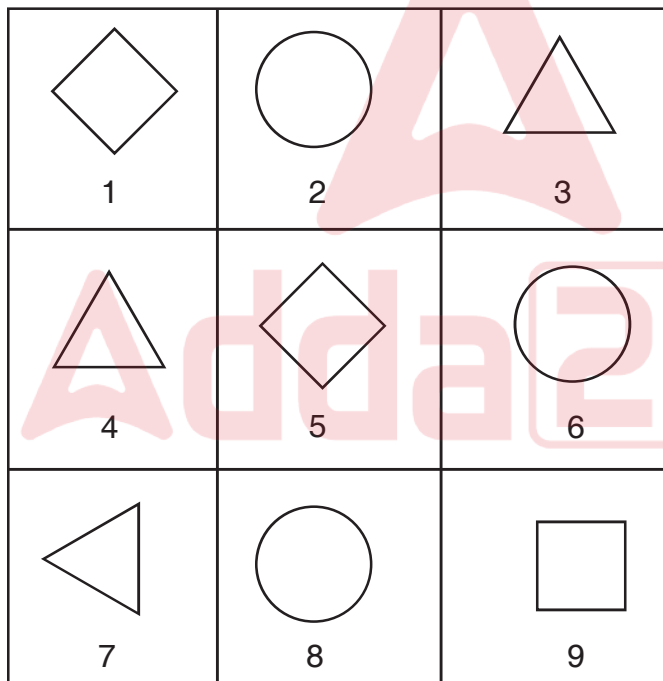
17. Select a suitable figure from the options that would replace the question mark (?).





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18. Vinay is taller than Hansika, Hansika is taller than Abhay, Aalok is taller than Ashok and Ashok is taller than Vinay. Who is the shortest in the group ?
- (a) Aalok (b) Ashok
(c) Hansika (d) Abhay
19. Choose a number which bears the same relationship with the third/four number as the first two bear.
- 3 : 27
- (a) 2 : 8 (b) 3 : 9
(c) 5 : 120 (d) None of the above
20. Group the given figures into different classes on the basis of their orientations, shapes.



- (a) (1, 5, 9), (2, 4, 7), (3, 6, 8)
- (b) (2, 6, 8), (1, 5, 9), (3, 4, 7)
- (c) (4, 3, 7), (2, 6, 9), (1, 5, 8)
- (d) (1, 2, 3), (4, 5, 6), (7, 8, 9)



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26. The value of $9^2 - 7^2$ is
- (a) 32
 - (b) 23
 - (c) 17
 - (d) 22
27. LCM of 18 and 20 is
- (a) 180
 - (b) 90
 - (c) 120
 - (d) 160
28. The ratio of boys to girls in a class is 3 : 4. If there are 18 boys in the class then the number of girls is
- (a) 16
 - (b) 20
 - (c) 24
 - (d) 28
29. The value of $\sqrt[3]{64}$ is
- (a) 4
 - (b) 2
 - (c) 8
 - (d) 6
30. There are 2 dozens of pencils in a box. If there are 10 such boxes, the total number of pencils in 10 boxes is
- (a) 20
 - (b) 100
 - (c) 240
 - (d) 120



36. In the following question, a sentence has been given in active voice. Out of the four alternatives suggested, select the one that best expresses the same sentence in passive voice and select your answer accordingly.

I can teach Naveen

- (a) Naveen can taught by me
 - (b) Naveen could be taught by me
 - (c) Naveen can be teach by me
 - (d) Naveen can be taught by me
37. Choose the correct meaning of the given idiom.

Stick by someone

- (a) to pass by
 - (b) to stand by someone
 - (c) to paste
 - (d) none of the above
38. Fill in the blank with appropriate word.

Everyone wants to burn _____. Ask any person who spends time sweating it out in a gym or on the field and he will tell you that fat is out.

- (a) Petrol
- (b) Gas
- (c) Fat
- (d) Oil

Direction (Q. No. 39 and 40) : Give one word substitute for the following from the alternatives given below them.

39. A large group of stars

- (a) galaxy
- (b) sky
- (c) radiation
- (d) core

40. A building in which motor vehicles can be kept

- (a) igloo
- (b) garage
- (c) glacier
- (d) grange



SECTION – E
(Technical Paper)

41. Who else must wear a helmet besides the rider ?
- (a) Only children
 - (b) Only professional drivers
 - (c) The pillion rider
 - (d) No one else
42. A helmet should meet
- (a) International Driving Standards
 - (b) ISI (Indian Standards Institute) requirements
 - (c) Traffic police approval only
 - (d) Manufacturer's warranty
43. Under which Section of the Motor Vehicles Act, 1988 is the renewal of a driving licence mentioned ?
- (a) Section 15
 - (b) Section 10
 - (c) Section 12
 - (d) Section 18
44. The registration number of vehicle must be displayed
- (a) On the dashboard only
 - (b) Only inside the vehicle
 - (c) Prominently on front and rear in the prescribed manner
 - (d) None of the above
45. A Driver should not drive a vehicle if
- (a) The vehicle is insured
 - (b) The driver is under the influence of drinks/drugs to an extent that control is impaired
 - (c) The driver has a valid licence
 - (d) The registration number is displayed correctly



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46. What does the “Horn Prohibited” sign instruct drivers to do ?
- (a) Use horn only at night
 - (b) Use horn near hospitals
 - (c) Respect the silence zone and not use horn
 - (d) Honk continuously
47. The traffic signal indicated on the road consists of how many colours ?
- (a) Three
 - (b) Two
 - (c) Four
 - (d) Five
48. A learner’s license is valid for a period of
- (a) 3 months
 - (b) 2 years
 - (c) 1 year
 - (d) 6 months
49. How will the duplicate licence be marked when issued ?
- (a) Copy
 - (b) Temporary
 - (c) Second licence
 - (d) Duplicate
50. What is the purpose of the “GIVE WAY” sign ?
- (a) To indicate road construction
 - (b) To assign right-of-way to traffic
 - (c) To allow parking
 - (d) None of the above



51. The sign “Compulsory Ahead or Turn Left” directs traffic to
- (a) Move straight or turn left
 - (b) Turn right only
 - (c) Stop immediately
 - (d) Move in any direction freely
52. If a driving licence is lost, mutilated or destroyed, the holder must
- (a) Report only to the police station
 - (b) Intimate the fact in writing in Form KMV 1 to the licensing authority
 - (c) Wait until renewal time
 - (d) None of the above
53. An application for a driving licence in India must be made in
- (a) Form 1
 - (b) Form 1-A
 - (c) Form 5
 - (d) Form 4
54. A medical certificate for a driving licence application must be submitted in
- (a) Form 4-A
 - (b) Form 5
 - (c) Form 1-A
 - (d) Form KMV 1
55. Laminated card type or Smart Card type driving licences are issued in
- (a) Form 4
 - (b) Form 5
 - (c) Form 6
 - (d) Form 7



56. Where should the ONE WAY sign be located ?
- (a) At the end of the street
 - (b) At bus stops
 - (c) At parking areas
 - (d) At the entry to the one-way street
57. According to the speed limit sign, what should a driver always remember ?
- (a) To drive faster than others
 - (b) The limit specified must be followed to avoid penal action
 - (c) To ignore traffic lights
 - (d) To use the horn at turns
58. The “Pedestrians only” sign means
- (a) Vehicles are allowed with pedestrians
 - (b) Only buses are allowed
 - (c) Only bicycles are allowed
 - (d) Only pedestrians are allowed and traffic is not allowed
59. If a vehicle has yellow fog lights, drivers should
- (a) Use them in fog
 - (b) Avoid using them
 - (c) Use them only at night
 - (d) None of the above
60. Yellow fog lights should be used at
- (a) Blind corners
 - (b) Straight roads
 - (c) Parking areas
 - (d) Toll gates



61. A stop line is a single solid line painted
- (a) Along the edge of the road
 - (b) Only inside parking areas
 - (c) On the side walls of tunnels
 - (d) Across the road before zebra crossings and intersections
62. A solid continuous yellow line painted on the kerb indicates
- (a) Speed limit zone
 - (b) Overtaking zone
 - (c) Pedestrian crossing
 - (d) No-parking area
63. Lane driving is considered as
- (a) Complicated and unsafe
 - (b) One of the easiest and safest methods of driving
 - (c) Useful only on highways
 - (d) Effective only for experienced drivers
64. The safest way to avoid crashes is
- (a) Driving at high speed
 - (b) Stick to your lane
 - (c) Honking continuously
 - (d) None of the above
65. The “No Entry” sign indicates
- (a) Vehicles must slow down
 - (b) Pedestrians only zone
 - (c) Parking is allowed
 - (d) Entry is prohibited for all vehicles



66. At night drivers should keep a constant eye out for
- (a) Roadside pedestrians, cyclists or cars
 - (b) Zebra crossing
 - (c) Buildings near the road
 - (d) Parking areas
67. If you see a flashing of brake light or see a weave on the road, you should
- (a) Increase speed
 - (b) Ignore it
 - (c) Slow down
 - (d) Change lane immediately
68. Pavement markings are used to
- (a) Decorate the road surface
 - (b) Delineate the centre of the road, identify travel lanes and define road edges
 - (c) Advertise products
 - (d) Indicate parking fees
69. White/yellow lines generally separate
- (a) Stop line
 - (b) Pedestrian crossings
 - (c) Parking spaces
 - (d) Traffic moving in opposite directions
70. White lines on highways are used to
- (a) Divide lanes of traffic moving in the same direction
 - (b) Show pedestrian crossings only
 - (c) Indicate road edges only
 - (d) None of the above



71. The “Restriction Ends” sign indicates
- (a) Beginning of a no-parking zone
 - (b) Any restriction conveyed through sign on road ends here
 - (c) Start of a speed limit zone
 - (d) Entry into a restricted area
72. The “Side Road Right” sign specifically indicates
- (a) A pedestrian crossing ahead
 - (b) A side road joining from the right
 - (c) A tunnel ahead
 - (d) A parking zone nearby
73. The “Petrol Pump” informatory sign indicates
- (a) A hospital nearby
 - (b) A speed limit zone
 - (c) A parking area ahead
 - (d) A petrol pump ahead
74. Work zone signs are provided to
- (a) Indicate parking areas
 - (b) Guide traffic through highway construction or maintenance zones
 - (c) Show tourist spots
 - (d) Display speed limits only
75. When are Cautionary/Warning signs provided on roads ?
- (a) After the hazard has passed
 - (b) At parking zones
 - (c) Only at petrol pumps
 - (d) Before the hazard on or near the road



76. Under which Section of the Motor Vehicles Act, 1988 is driving under the influence of alcohol or drugs punishable ?
- (a) Section 177 (b) Section 129
(c) Section 194 (d) Section 185
77. Driving becomes more dangerous when the driver is not
- (a) Mechanically skilled (b) At his physical and mental best
(c) Using a modern vehicle (d) Wearing protective gear
78. All traffic must keep at which direction ?
- (a) Follow only traffic signals
(b) Keep to the left
(c) Drive in the middle of the road
(d) None of the above
79. A driver must produce his/her driving licence
- (a) Only when renewing registration
(b) Only when buying fuel
(c) On demand for examination by a Police Officer in uniform
(d) None of the above
80. Vehicles displaying "L" plates are
- (a) Driven by professional drivers
(b) Used only for heavy vehicles
(c) Reserved for emergency vehicles
(d) Driven by learners and inexperienced drivers
81. An application for renewal of a driving licence must be made in
- (a) Form 4
(b) Form 5
(c) Form 9
(d) Form 1-A



82. Before getting into the vehicle, a driver must check possession of
- (a) Only the insurance policy
 - (b) Valid licence, registration certificate, inspection certificate and insurance policy
 - (c) Vehicle keys only
 - (d) Pollution certificate only
83. The first step when injuries result from a traffic accident is to
- (a) Drive away quickly
 - (b) Only check vehicle damage
 - (c) Wait for others to arrive
 - (d) Look over the injured and call ambulance and police services
84. The most important factor in driving is
- (a) Parts of the vehicle
 - (b) The driver himself
 - (c) The speed of the vehicle
 - (d) None of the above
85. Which of the following is included in the 4 E's of crash prevention ?
- (a) Education
 - (b) Employment
 - (c) Entertainment
 - (d) Economics
86. If a fire service vehicle, ambulance or police car with siren is approaching, you must
- (a) Stop in the middle of the road
 - (b) Ignore the siren
 - (c) Slow down to block the way
 - (d) Allow them free passage by driving to the side



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87. When it rains, drivers should
- (a) Drive faster to clear traffic
 - (b) Drive slowly, keep longer distance between the vehicle in front and give way to pedestrians
 - (c) Ignore pedestrians and maintain speed of the road
 - (d) None of the above
88. On winding hill roads during rain, drivers should
- (a) Stay close to the outside edge
 - (b) Avoid getting too close to the outside edge due to landslide risk
 - (c) Drive faster to avoid landslides
 - (d) Stop immediately on the edge
89. If the inside glass fogs up, drivers should
- (a) Ignore it and continue driving
 - (b) Clean with dry cloth, open side window and use heater if available
 - (c) Splash water on the glass
 - (d) None of the above
90. No rider should enter a road without
- (a) Gloves
 - (b) Boots
 - (c) A jacket
 - (d) A helmet
-

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