1. In Flemish bond brick work:
   (A) Each course consists of alternating stretchers and headers
   (B) Every second course consists of alternating stretchers and headers
   (C) Alternate course of headers and stretchers
   (D) All the bricks and laid as headers on the faces

2. Usonian middle income family homes were designed by:
   (A) Alvar Alto
   (B) Le Corbusier
   (C) Frank Lloyd Wright
   (D) Balkrishna Vithaldas Doshi

3. The theory of proportion used in Japanese Architecture is:
   (A) Ken
   (B) Golden Section
   (C) Modular Section
   (D) Yin Yang

4. Time required for the sounds to decay to 60 dB is called:
   (A) Delay time
   (B) Transient time
   (C) Reverberation time
   (D) Echo time

5. The noise level for lecture rooms should be kept at:
   (A) 30 dB
   (B) 40 dB
   (C) 50 dB
   (D) 60 dB

6. Victoria memorial in Kolkata (Calcutta) was designed by:
   (A) Sir William Emerson
   (B) Edwin Lutyens
   (C) Herbert Baker
   (D) Vincent J. Esch
7. What is the botanical name of Silver oak tree:
   (A) Polyalthia longifolia  (B) Pongamia glabra
   (C) Grevalia robusta  (D) Delonix regia

8. Safe axial load for a short R.C. square column having cross section as 300 mm × 300 mm and 4 longitudinal bars of diameter 20 mm (using M 20 concrete and Fe 415 steel) is near to:
   (A) 100 kN  (B) 10 kN
   (C) 1000 kN  (D) 10000 kN

9. The Pyramid entrance to the Louvre Museum, Paris, France was designed by:
   (A) I. M. Pei  (B) Frank Lloyd Wright
   (C) James Stirling  (D) Zaha Hadid

10. The First LEED Platinum rated building of India:
    (A) CII, Godrej, GBC Hyderabad
     (B) United Commercial Tower, Chandigarh
     (C) Suzlon one Earth, Pune
     (D) Logix Cyber Park, UP

11. Grillage foundation is designed for:
    (A) Medium bearing capacity soil
    (B) Low bearing capacity soil
    (C) High bearing capacity soil
    (D) Normal bearing capacity soil
12. Which of the following is generally the largest internal source of revenue for Indian municipalities?
   (A) Property Tax
   (B) Stamp duty on property transfer
   (C) Conservancy Tariff
   (D) Water Tariff

13. Minimum visibility distance at a major road intersection, for a design speed of 80 kmph is:
   (A) 200 metres
   (B) 180 metres
   (C) 80 metres
   (D) 100 metres

14. The stress below which a material regains its size and shape when the load is removed is called as:
   (A) Elastic limit
   (B) Plastic limit
   (C) Rebound load
   (D) Fracture load

15. As per the Ancient Monuments and Archaeological Sites and Remains Act, 2010, the extent of ‘regulated area’ beyond the ‘demarcated prohibited area’ in meters is:
   (A) 50
   (B) 100
   (C) 200
   (D) 500

16. Delhi Haat, INA is designed by:
   (A) Charles Correa
   (B) Pradeep Sachdeva
   (C) Habib Rahman
   (D) Laurie Baker
17. A single room of 3 metres × 5 metres enclosed by 20 cm thick walls has to be constructed. The required foundation trench is 80 cm wide and 80 cm deep. The quantity of earthwork in excavation in cubic metres is :
   (A) 10.75  (B) 12.80
   (C) 18.70  (D) 20.24

18. Judicious use of technical power was advocated by Urban theorist :
   (A) Patrick Geddes  (B) Charles Abrams
   (C) Constantine Doxiadis  (D) Lewis Mumbord

19. Post-modernism design movement was initiated by :
   (A) Violett-le-duc  (B) William Morris
   (C) Robert Venturi  (D) Le Corbusier

20. In the architectural style of ancient North Indian Temples, the term ‘Adhisthana’ refers to :
   (A) Pinnacle  (B) Base Platform
   (C) Vestibule  (D) Transept

21. Which among the following architects has not won the Pritzker Architecture Prize till 2019 ?
   (A) Arata Isozaki  (B) B. V. Doshi
   (C) I. M. Pe  (D) Zaha Hadid

22. The correct chronological order of the given architectural movements is :
   (A) Romanesque; Roman; Baroque; Gothic; Renaissance
   (B) Romanesque; Roman; Renaissance; Gothic; Baroque
   (C) Roman; Romanesque; Gothic; Renaissance; Baroque
   (D) Roman; Romanesque; Gothic; Baroque; Renaissance
23. Which of the following is not a land use zone?
   (A) Industrial Zone  (B) Agriculture Zone
   (C) Heritage Zone   (D) Commercial Zone

24. Which of the following Indian sites included in UNESCO World Heritage list in 2019?
   (A) Wall city, Jaipur
   (B) Walled city, Ahmedabad
   (C) Fatehpur Sikri
   (D) Ajanta caves

25. As per the ‘Handbook of Landscape’, CPWD 2013, Government of India, globular plant form is found in which tree?
   (A) Mimusops elengi
   (B) Ipomoea grandiflora
   (C) Juniperus chinensis
   (D) Salix babylonica

26. What is the primary application of eQuest software tool?
   (A) Acoustic analysis  (B) Lighting analysis
   (C) Energy simulation  (D) Geo-spatial analysis

27. What is potential causes of failure of flat slab?
   (A) Thrust  (B) Flutter
   (C) Punching shear  (D) Buckling
28. ‘Formulation of GIS based master plan’ is a sub-scheme of :
   (A) Atal Mission for Rejuvenation and Urban Transformation
   (B) Smart Cities Mission
   (C) Jawaharlal Nehru National Urban Renewal Mission
   (D) Shyama Prasad Mukherji Rurban Mission

29. As per the Urban and Regional Development Plan Formulation and Implementation (URDPFI) 2015 guidelines, Government of India, the characteristics of Peri-Urban settlement is :
   (A) Zones of transition from rural to urban land uses located between the outer limits of urban and regional centres and rural environment
   (B) Towns having potential for investment and development; identified on the basis of their inter-aerial relationship with the regional nodal centre
   (C) Settlements that are growing sub-nodal centres but located out of the direct functionality linked areas of the growth node / nodal centre in the region
   (D) Located near or within reasonable distance, well connected by transportation route of the growth node or metropolitan city and dependent on growth node largely for employment

30. The concentric circles and radial lines in a solar chart represent :
   (A) Altitude angle and azimuth angle
   (B) Horizontal shadow angle and vertical shadow angle
   (C) Latitude and longitude of the place
   (D) Incident angle and hour angles
31. Bhubaneshwar was designed by:
   (A) Lucio Costa
   (B) Otto Koenigsberger
   (C) Oscar Neimeyer
   (D) Le Corbusier

32. Based on the Psychrometric Chart given below, name the process shown by line V1:
   (A) Cooling and humidification
   (B) Heating and humidification
   (C) Cooling and dehumidification
   (D) Humidification
33. What type of underpinning is shown in the fig. given below?

(A) Pit method  (B) Micro piles  
(C) Jackpile underpinning  (D) Piles

34. Biotope area factor refers to which parameter in urban development?

(A) Active Green Area  
(B) Built Density in Two dimension  
(C) Urban density in third dimension  
(D) Cross Sectional Property of Urban Canyon

35. The five rathas at Mahabalipuram are carved from which stone?

(A) Marble  (B) Besalt  
(C) Limestone  (D) Granite

36. As per URDPFI Guidelines 2015, Government of India, choose the correct hierarchy of plans from higher to lower order:

(A) Perspective plan, Development plan, Regional plan, Zonal plan  
(B) Perspective plan, Regional plan, Development plan, Zonal plan  
(C) Regional plan, Perspective plan, Development plan, Zonal plan  
(D) Zonal plan, Development plan, Regional plan, Perspective plan
37. In India, the Constitution (Seventy Fourth Amendment) Act, 1992, delegates powers to institutions forming the third tier of government, which are:
   (A) Municipal Corporation, Municipality and Nagar Panchayat
   (B) Development Authority, Municipal Corporation and Municipality
   (C) Improvement Trust, Nagar Panchayat and Panchayat
   (D) Development Authority, Improvement Trust and Panchayat

38. ‘GRIHA’ rating system is developed by:
   (A) TERI
   (B) IGBC
   (C) GBCI
   (D) BEE

39. As per Bureau of Indian Standards TDS (Total Dissolved Solids) in drinking water must be:
   (A) below 50 mg/l
   (B) between 50 mg/l to 500 mg/l
   (C) between 500 mg/l to 2000 mg/l
   (D) above 2000 mg/l

40. Heating of an organic material, such as biomass, in the absence of oxygen is called:
   (A) Burning
   (B) Distillation
   (C) Incineration
   (D) Pyrolysis
41. The maintenance cost of a building will be Rs. 2 lacs after 10 years. The annual sinking fund required for such maintenance @ of 6% interest per annum will be:

(A) Rs. 17,200  
(B) Rs. 15,200  
(C) Rs. 13,200  
(D) Rs. 11,200

42. Choose the right kind of statutory provision to enforce integrated urban conservation:

(A) Conservation of Ancient Monuments and Sites Act  
(B) Urban Arts Commission Act  
(C) Conservation of Energy Act  
(D) Conservation of Natural Resources Act

43. Which of the following is not a thermoplastic resin?

(A) Alkyd  
(B) Phenol formaldehyde  
(C) Cellulose  
(D) Vinyl

44. All of the following are the examples of deconstruction in Architecture, EXCEPT:

(A) MIT Stata Centre in Cambridge, USA  
(B) Vitra Design Museum in Weil-am-Rhein (Germany)  
(C) Florence Cathedral, Florence, Italy  
(D) Imperial War Museum in Manchester in the UK
45. The process involving the generation and management of digital representation of physical and functional characteristics of places is called as:

(A) Building information system
(B) Digital information management
(C) Document information management
(D) Building information modelling

46. Architect associated with J.F. Kennedy International airport is:

(A) F.L. Wright
(B) Eero Sarinen
(C) Philip Johnson
(D) Kenzo Tange

47. Which of the following items is not considered as outgoings in Net Rent Calculation?

(A) Annual Depreciation
(B) Municipal Tax
(C) Civil Maintenance
(D) Sinking Fund

48. A 28-storeyed building has 5 lifts. The resulting waiting time is 40 sec and ‘Return Travel Time’ is 200 sec. The number of lifts required for reducing waiting time to 25 sec, without increasing the lift speed, is:

(A) 7
(B) 6
(C) 9
(D) 8

49. For a Split Complementary colour scheme, the primary red colour should be associated with:

(A) blue violet – red violet
(B) red orange – yellow orange
(C) blue green – yellow green
(D) red violet – blue green
50. The set of entities representing vector data type in Geographical Information System :
   (A) DEM, DSM, DTM         (B) Point, Line polygon, TIN
   (C) Pixel, Voxel           (D) Co-ordinates, Elevation, Slope

51. In a perspective drawing, maximum no. of vanishing points may be :
   (A) 2                      (B) 3
   (C) 4                      (D) 5

52. The Garden City concept by Sir Ebenezer Howard consisted of :
   (A) Tower blocks to displace the population vertically and leave most of the available land as greenery
   (B) Each privately owned house to have its own front and rear garden
   (C) Six small towns surrounded by green belts and linked to a larger central city
   (D) Planning cities to have plenty of trees, flowers and public gardens.

53. Tactile ground surface indicators (TGSI) or Tactile Guiding and Warning Tiles are used to :
   (A) Protect people who use wheel chair
   (B) Discourage a user, particularly a child from climbing it
   (C) Aid blind and vision impaired pedestrian negotiate the built environment
   (D) Manoeuvre wheel chair at turnings with minimum radius

54. Which of the following lamps gives nearly monochromatic light ?
   (A) Sodium vapor lamp      (B) GLS lamp
   (C) Tube light             (D) Mercury vapor lamp
55. One hectare of agricultural land has been given on a lease till perpetuity at an annual rent of Rs. 10,000 to be paid at the end of each year. Net Present Value of the land parcel in Rupees assuming a discount rate of 5% per annum is:
(A) 2,00,000  
(B) 2,50,000  
(C) 2,20,000  
(D) 2,25,000

56. A drainage basin of 180 hectares comprise 40% wooded area, 45% grassed area and 15% paved area. Run off coefficients for wooded, grassland and paved areas are 0.01, 0.2 and 0.95 respectively. The composite runoff coefficient for the drainage basin is:
(A) 0.2365  
(B) 42.57  
(C) 23.65  
(D) 0.4257

57. The number of standard cement bags required to prepare 1400 kg of concrete in the ratio 1 : 2 : 4 (mixed by weight batching) is:
(A) 5.0  
(B) 4.5  
(C) 4.0  
(D) 5.5

58. An arch may be subjected to:
(A) Shear force and thrust  
(B) Shear force and axial force  
(C) Bending moment and axial force  
(D) Thrust, bending moment and shear force

59. Expansion joints are provided in building blocks after every .......meters?
(A) 10  
(B) 20  
(C) 40  
(D) 30
60. Three phase line electrical wires colour coding is:
   (A) Red, Black, Blue  (B) Red, Yellow, Blue
   (C) Red, Black, Yellow  (D) Yellow, Black, Blue

61. Safe and complete load path in any building requires the following sequence:
   (A) Foundation → Columns → Beam → Slab
   (B) Slab → Columns → Foundation → Beam
   (C) Slab → Beam → Column → Foundation
   (D) Columns → Beam → Slab → Foundation

62. Site and services schemes of housing lay emphases on:
   (A) Well planned houses fitted with desired services.
   (B) Well provided services with skeletal dwelling unit structure.
   (C) All services and almost no dwelling unit on the site.
   (D) Site facilitating only essential services.

63. M10 grade of concrete approximates:
   (A) 1 : 3 : 6 mix  (B) 1 : 1 : 2 mix
   (C) 1 : 2 : 4 mix  (D) 1 : 1.5 : 3 mix

64. A brick wall 19 cm thick has a thermal conductivity 0.811 W/m°C. The outside and inside surface conductances of the wall are 16 W/m°C and 8 W/m²°C respectively, then the U-value of the wall in W/m²°C is:
   (A) 16.811  (B) 2.3708
   (C) 24.811  (D) 23.708
65. The fixed end moment of a cantilever beam with a uniformly distributed load of 10 kN/m and a span of 3 m is:
   (A) 30 kN-m  (B) 45 kN-m
   (C) 90 kN-m  (D) 60 kN-m

66. The Neighbourhood Unit Theory in urban planning was conceptualized by:
   (A) C.A. Perry  (B) Homer Hoyt
   (C) Patrick Geddes  (D) Von Thunen

67. Which among the following is a star-shaped city?
   (A) Ames  (B) Chicago
   (C) London  (D) Palmanova

68. A neighbourhood with a total area of 300 hectares has been planned for a gross density of 300 pph. If the residential area is 60% of the total area, then net density of the neighbourhood will be:
   (A) 200 pph  (B) 450 pph
   (C) 500 pph  (D) 650 pph

69. Calculate the number of light fixtures required in an office room of 8 m × 7 m, requiring an illumination level of 400 lux on the work plane. Each light fixture has a rated output of 7350 lumens. Assume a utilization factor of 0.5 and a maintenance factor of 0.8:
   (A) 8  (B) 7
   (C) 10  (D) 12

70. In a seminar room of area 200 sq.m, 4 m height and total absorbing power of 120 m² sabines, what is the reverberation time?
   (A) 0.24 secs.  (B) 1.08 secs
   (C) 1.52 secs  (D) 4.16 secs
71. What is the rate of ventilation due to wind action if the free area of the window is 1 sq.m., and the wind speed is 1 m/hr. Assume the wind to be perpendicular to the window:
(A) 1.0 cu.m/hour  (B) 0.6 cu.m/hour
(C) 0.3 cu.m/hour  (D) 0.1 cu.m/hour

72. A semi-circular stone arch of thickness 30 cm is provided over an opening in a brick wall. The wall has length 3.0 m, width 30 cm and height 3.0 m. The opening has span 1.0 m and height 2.0 m. The quantity of stone work in the semi-circular arch (in cu.m) is:
(A) 0.141  (B) 0.184
(C) 0.325  (D) 0.613

73. A building has a roof top area of 300 sq. m. If the avg. annual rainfall in the region is 700 mm and the runoff coefficient of the roof top is 0.8, then the maximum amount of rainfall that can be harvested from the roof top (in litres) is:
(A) 168  (B) 262
(C) 168000  (D) 2625000

74. The pH value of water that should be used in PCC & RCC works is:
(A) equal to 11  (B) equal to 7
(C) equal to 8  (D) equal to 9

75. Bending stress at neutral axis is:
(A) Positive  (B) Negative
(C) Zero  (D) One
76. Find the activity with the least crash slope:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Normal duration (days)</th>
<th>Crash duration (days)</th>
<th>Normal cost</th>
<th>Crash cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>120</td>
<td>100</td>
<td>12000</td>
<td>14000</td>
</tr>
<tr>
<td>Q</td>
<td>20</td>
<td>15</td>
<td>1800</td>
<td>2800</td>
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<td>R</td>
<td>40</td>
<td>30</td>
<td>16000</td>
<td>22000</td>
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<td>S</td>
<td>30</td>
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<td>50</td>
<td>40</td>
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<td>4800</td>
</tr>
<tr>
<td>V</td>
<td>60</td>
<td>45</td>
<td>13500</td>
<td>18000</td>
</tr>
</tbody>
</table>

(A) Activity Q  (B) Activity P  
(C) Activity S  (D) Activity T

77. In a PERT network, the sum of the estimated time along a critical path gives the time that signifies the project completion with probability of:

(A) 0.25  (B) 0.6667  
(C) 0.5  (D) 1

78. A site map drawn to scale 1:10000 shows seven contour lines at 5 meters contour internal. The highest contour elevation is 300 metres. The average distance between the highest and lowest contour lines on the map is 2.4 cm. What is the average slope between the highest and lowest contour elevations?

(A) 1 in 6.86  (B) 1 in 40  
(C) 1 in 8  (D) 1 in 20
79. As per NBC 2016, Fire safety regulations for high rise buildings require:
   (A) Min. 3 m open space on all its sides
   (B) Min. 4.5 m wide open space on all its sides
   (C) Min. 8 m wide motorable approach/unobstructed open space on all its sides
   (D) Min. 6 m wide motorable approach/unobstructed open space on all its sides

80. Density control of residential area is expressed in terms of:
   (A) Dwelling units per floor
   (B) Dwelling units per plot
   (C) Age-sex ratio
   (D) Floor area ratio

81. Relationship between shear force and bending moment is:
   (A) Proportional
   (B) Inversely proportional
   (C) Equal
   (D) None of these

82. Ferrule is provided at the junction of:
   (A) Upward distribution system and water meter
   (B) Upward/Down tank supply system and municipal water mains
   (C) Water meter and underground storage tank
   (D) Pumps and supply pipe

83. In pressure supply mains, water hammer pressure is reduced by providing:
   (A) Air valves
   (B) Sluice valves
   (C) Pressure relief valves
   (D) Gate valves

84. Guniting is:
   (A) Seam welding of R.S.J. to steel stanchion
   (B) Compaction of earth by mechanical means
   (C) Vulcanization of P.V.C. and rubber joints in a water supply system.
   (D) Construction and repair of concrete structure with a pressure gun
85. A grotesquely carved figure of Human or Animal projecting from gutter and serves as a rain Water spout is called:
   (A) Stylobate  (B) Carved spout
   (C) Crepidoma  (D) Gargoyle

86. In Chandigarh city plan, architect Le-Corbusier’s V7 concept relates to:
   (A) Housing typologies
   (B) Hierarchy of roads
   (C) Hierarchy of parks and open spaces
   (D) System of distribution of commercial and industrial spaces

87. In the Ancient system of Town planning in India, the pattern of plan, which resembles the petals of roses radiating outwards from the centre is called:
   (A) Swastika  (B) Karmukha
   (C) Padmaka  (D) Dandaka

88. Hagia Sophia Museum in Istanbul, Turkey is the most famous and spectacular example of:
   (A) Renaissance architecture  (B) Islamic architecture
   (C) Byzantine architecture  (D) Greek architecture

89. Who designed the Central Park?
   (A) Robert Wagner  (B) Frederick Law Olmstead
   (C) Frank Lloyd Wright  (D) Kohn Peterson Fox

90. Dimensions in Le Corbusier’s modular human scale are in:
   (A) Arithmetic progression  (B) Geometric progression
   (C) Unrelated natural order  (D) None of these
91. The proportions of Parthenon corresponds to:
   (A) Blue series and the spiral
   (B) Geometric series and Archimedean solids
   (C) Rules of Protagoras and Euclidean anthropometrics
   (D) Entasis and golden mean

92. A group housing plot of 400 square meter, abutting a 20 meter road is permitted to have 35% ground coverage and maximum FAR of 1.25. Assuming 70 square meter of super built-up area, calculate the maximum number of units that can be accommodated?
   (A) 5
   (B) 7
   (C) 9
   (D) 12

93. What is Gentrification?
   (A) A policy aimed at renovating inner-city council housing stock
   (B) Building shopping centre in cities to create employment
   (C) The movement of the middle class into suburban areas
   (D) Renovation of rundown city neighbourhoods to attract high income groups

94. Width of carriageway for a single lane is recommended to be:
   (A) 5.5 m
   (B) 3.75 m
   (C) 4.5 m
   (D) 6.0 m

95. The orthographic projection that show more than one side of an object are called:
   (A) Isometric projection
   (B) Rectangular 2D projection
   (C) Perspective projection
   (D) Parallel projection
96. In a building the function of Air Handling Unit (AHU) is to:

(A) Collect the hot air from the room and throw it outside the building
(B) Collect fresh air from outside and circulate inside the building
(C) Purify and re-circulate the cool conditioned air
(D) Act as a unit in which air is circulated from one place to other

97. Basel Convention of 1989 deals with:

(A) Greenhouse Gases
(B) Ozone Layer depletion
(C) Hazardous waste
(D) Bio-medical waste

98. Scientific discipline concerned with understanding of interactions among humans and other elements of a system aiming at effective utility and safety is called:

(A) Universal design
(B) Anthropometrics
(C) Ergonomics
(D) Kinanthropometrics

99. In classical Greek architecture, name the top step of the stepped platform upon which colonnades of temple columns are placed?

(A) Crepidoma
(B) Base
(C) Stylobate
(D) Stereobate

100. The author of 'Design with Nature' book is:

(A) Philip Jadinio
(B) Christopher Alexander
(C) Robert Venturi
(D) Ian L. McHarg

M-CL-05 (M. Arch.)-C 21 P.T.O.
GENERAL APTITUDE

101. Identify which of the following figures (a), (b), (c) and (d) can be formed from the pieces given in the figure X:

Answer Figures

(A) (a)  (B) (b)
(C) (c)  (D) (d)

102. Directions: Study the following information carefully and answer the question given below:

A, B, C, D, E, G and I are seven friends who study in three different standards namely 5th, 6th and 7th such that not less than two friends study in the same standard. Each friend also has a different favourite subject namely, History, Civics, English, Marathi, Hindi, Mathematics and Economics but not necessarily in the same order. A likes Mathematics and studies in the 5th standard with only one other friend who likes Marathi. I studies with two other friends. Both the friends who study with I like languages (Here, languages include only English, Hindi and Marathi). D studies in the 6th standard with only one friend and does not like Civics. E studies with only one friend. The one who likes History does not study in 5th or 6th standard. E does not like languages. C does not like English, Hindi or Civics.

Which of the following subjects does G like?

(A) Either Mathematics or Marathi  (B) Either Hindi or English
(C) Either Civics or Hindi  (D) Either Hindi or Marathi
103. How many triangles are there in the given figure?

(A) 10
(B) 16
(C) 18
(D) 19 or more

104. Statement: Should all professional colleges in India be encouraged to run their own courses without affiliations to any university?

Arguments:

I. Yes, this is the only way to create more opportunities for those who seek professional training.

II. No, this will dilute the quality of professional training as all such colleges may not be equipped to conduct such courses.

(A) Only I is strong
(B) Only II is strong
(C) Neither I nor II is strong
(D) Either I or II is strong
105. Hovel : Dirty :: Hub : .........

(A) Unseen          (B) Prideful
(C) Busy            (D) Shovel

106. Directions: Study the information and answer the question following it:

Letter B A D E F H J K M I U O W P
Code 6 $ 7 8 # 1 2 * % 3 @ 4 9 5

Conditions:

(i) If the first letter is a vowel and the last letter is a consonant, their codes are to be interchanged.

(ii) If both the first and the last letters are consonants, both are to be coded as ‘δ’.

(iii) If the first letter is a consonant and the last letter is a vowel, both are to be coded as the code for the vowel.

AKPDMF

(A) #*57%$          (B) #*75%$
(C) #5*7%$          (D) #*5%7$

107. Point G is 30 m to the east of point B, which is 20 m to the north of point A. Point F is 16 m to the west of point E. Point H is 12 m to the south of point F. Point E is 10 m to the south of point G. Point C is 13 m to the east of point F.

If point Y is 6 m south of point G, then find the shortest distance between point C and point Y:

(A) 4 m          (B) 5 m
(C) 6 m          (D) 7 m
108. Deepak said to Rahul, “That boy playing with football is the younger of the two brothers of the daughter of my father’s wife”. How is the boy playing football related to Deepak?

(A) Son
(B) Brother
(C) Cousin
(D) Brother-in-law

109. Complete the series: 17, 43, 81, 131, ...........

(A) 468  
(B) 375  
(C) 300  
(D) 193

110. Directions: Study the following information carefully and answer the question given below:

In a certain code, ‘for profit order now’ is written as ‘ho ja ye ga’, ‘right now for him’ is written as ‘ga ve ja se’, ‘place order for profit’ is written as ‘ga bi ho ye’ and ‘only in right order’ is written as ‘ve du ye zo’.

Which of the following may represent ‘only for now’?

(A) ja bi zo
(B) du zo ga
(C) zo ga ja
(D) zo ga ye
General English

111. Find the synonym of Louche :

(A) Gauche  
(B) Fine  
(C) Brilliant  
(D) Indecent

112. Rearrange the following six sentences in proper sequence to form a meaningful paragraph, and then answer the question given below :

1. Chandrakanth was shocked when he realised that the leg had lost sensation.
2. When he tried to get up, he felt his leg was very heavy.
3. He had to lie down hopelessly, till he saw a flash light
4. It was an odd night time and hence nobody heard his voice.
5. Due to sudden sprain Chandrakanth fell down.
6. Nervous with this realisation, he called out for help.

Which sentence should come 1st in the paragraph?

(A) 2  
(B) 3  
(C) 4  
(D) 5

113. One word substitution : Mania for making purchases :

(A) Onomamania  
(B) Oniomania  
(C) Opiomania  
(D) Onomatomania

114. In the question, few words are given out of which only one is misspelt. Find that misspelt word :

(A) Quaver  
(B) Persecute  
(C) Concordanse  
(D) Fervor

115. Choose the best preposition to fill the gap in the following sentence :

I am fortunate............having a friend like you.

(A) of  
(B) at  
(C) in  
(D) for

116. Which of the following option when replaced with the bold text will improve the statement to make it correct:

The bigger dilemma facing these mega stores is how to retain customers after the novelty **wear thin**.

(A) wears thin (B) cools down
(C) wears off (D) No Improvement

117. Read each part of the sentence to find out whether is there any grammatical error in it. The error if in any part of the sentence, the option given in that part will be the answer:

(A) Since I had lived there (B) for many years the villagers
(C) were very comfortable talked (D) to me about their problems

118. From the given options choose the correct word suitable to fill in the blank spaces:

A striking ____ from the debates is that the two parties do not just ____ on solutions to policy issues, they do not even agree on what the issues are.

(A) Conversation, contradict (B) Controversy, rush
(C) Matter, agree (D) Takeaway, disagree

119. Propensity is most nearly opposite in meaning to:

(A) Poverty (B) Aversion
(C) Ambiguity (D) Embodiment

120. Choose the most appropriate idiom among the given options that makes the sentence contextually meaningful:

The SIS called on the foreign media to.............the professional codes and report only what they witness themselves, checking facts from their authentic and reliable sources.

(A) Abide by (B) Ask around
(C) Back up (D) Back off