

**E****Bangladesh Marine Academy****52 Batch Cadet Selection Examination: 9 October 2015**

Duration: 2 hours

Full Marks: 320

Roll Number: _____

Mathematics

- If A & B are any two sets, $(A-B) \cap B = ?$ (A) A, (B) B, (C) ϕ , (D) ϕ
- If ω is a cube root of unity, $(-1 + \omega + \omega^2)(1 + \omega - \omega^2) = ?$
(A) 4, (B) $4\omega^2$, (C) -4, (D) $-4\omega^2$
- What is the value of $\tan(-1125^\circ)$? (A) 1, (B) -1, (C) 0, (D) ∞
- The area of a triangle whose vertices are (1,0), (2,1) & (4,5) in sq. unit?
(A) 1, (B) -1, (C) 0, (D) 2
- What is the length of line $x/3 + y/3 = 1$, intercepted by between the axes of coordinates is? (A) 3, (B) $\sqrt{2}$, (C) $3\sqrt{2}$, (D) $2\sqrt{3}$
- The length of the intercept from the x-axis of the circle $x^2 + y^2 + 2x + 2y + 1 = 0$ is (A) 1, (B) 0, (C) 2, (D) 4
- If $y = 5x^4 - 2x^3 + 7x^2 - x + 9$ then $y_4 = ?$ (A) 0, (B) 60, (C) 120, (D) 240
- A train moves through a distance $2t^2 + 3t + 4$ meter in t seconds; what will be its velocity (m/s) after 5 minutes? (A) 300, (B) 1200, (C) 1203, (D) 1197
- $\int_1^e x e^{x^2} dx = ?$ (A) $2(e-1)$, (B) $2(e+1)$, (C) $\frac{1}{2}(e+1)$, (D) $\frac{1}{2}(e-1)$
- Which one is correct for $(.1)_{10}$?
(A) $(.0001)_2$, (B) $(.00011)_2$, (C) $(.0001100)_2$, (D) $(.00011001)_2$
- The decimal number 45 into binary number is
(A) 101001, (B) 101101, (C) 110000, (D) 100001
- If ${}^n P_4 = 14 \cdot {}^{n-2} P_3$, then find the value of n.
(A) 7 or 8, (B) 9, (C) 8, (D) None
- If $5x + 13 = 31$, what is the value of $\sqrt{5x + 31}$?
(A) 13, (B) $\sqrt{13}$, (C) 169, (D) 7
- If $2A = 3B = 4C$, then A:B:C is: (A) 3:4:6, (B) 6:4:3, (C) 2:3:4, (D) 4:3:2
- Rewrite the inequality $-6 < x < 2$ using absolute value sign.
(A) $|2x + 4| < 8$, (B) $|2x + 4| > 8$, (C) $|2x - 4| < 8$, (D) None
- If $s = t^3 - 2t^2 + t - 7$, find the value of ds/dt at $t = -1$.
(A) 6, (B) 7, (C) 8, (D) None
- Determine $\int \tan x dx$. (A) $\text{Insec}x$, (B) \sec^2x , (C) $\sec x \tan x$, (D) $\text{Intan}x$
- Find the area inside the parabola $y^2 = 4x$ & straight line $y = x$.
(A) $1/2$, (B) $3/4$, (C) 6, (D) $8/3$
- Find the equation of the straight line when it passes through the origin and the point (-4,4).
(A) $2x + 3y = 0$, (B) $x = 0$, (C) $y = 0$, (D) $x + y = 0$
- The costing price of 12 articles is equal to selling price of 9 articles; find the gain percentage. (A) 25%, (B) 30%, (C) 33.33%, (D) 50%
- If each side of a cube is doubled then its volume will be:
(A) 2 times, (B) 4 times, (C) 6 times, (D) 8 times.
- The average of 7 consecutive numbers is 33. The largest number will be: (A) 28, (B) 30, (C) 33, (D) 36.
- What is the average of 2^{10} and 2^{20} ?
(A) 2^{15} , (B) $2^5 + 2^{10}$, (C) $2^9 + 2^{19}$, (D) 2^{29}
- If $\sin\theta + \cos\theta = 1$, then $\theta = ?$ (A) $2n\pi$, (B) $(4n-1)\pi/2$, (C) $(4n-2)\pi/2$, (D) None.
- What is the square root of $2i$? (A) $\pm(1-i)$, (B) $\pm i$, (C) $\pm(1+i)$, (D) None
- Convert $\sin\theta$ into $\cot\theta$.
(A) $1/\sqrt{1+\cot^2\theta}$, (B) $1/\sqrt{2+\cot^2\theta}$, (C) $\pm 1/\sqrt{1+\cot^2\theta}$, (D) None.
- $\sin A + \sin B + \sin C = ?$ (A) $1/R$, (B) $2S/R$, (C) S/R , (D) None.
- For what value of x the slope of the curve $y = x + 1/x$ will be zero.
(A) ± 3 , (B) $1/2$, (C) ± 1 , (D) $-1/2$
- Determine the equation of horizontal Tangent of $y = e^x + e^{-x}$.
(A) $y = -3$, (B) $y = 1$, (C) $x = 2$, (D) $y = 2$
- The summation of x & y is 100. What would be the minimum magnitude of $x^2 + y^2$. (A) 1000, (B) 5000, (C) 100, (D) 10
- Determine the highest value of $y = x^2(1-x)$.
(A) $2/27$, (B) $\sqrt{x}/27$, (C) $x/27$, (D) $4/27$
- If $y = (2x-5)^3$, then what is the value of $y_n = ?$ (A) 48, (B) 24, (C) 64, (D) 0
- $d^{100}/dx^{100}(x^{99}) = ?$ (A) $100i$, (B) $99i$, (C) $99ix$, (D) None.
- $\sqrt{i} + \sqrt{-i} = ?$ (A) $\sqrt{2}$, (B) $2i$, (C) 2, (D) None
- Find the square root of $-8 - 6\sqrt{-1}$.
(A) $\pm(1-3i)$, (B) $\pm(1+3i)$, (C) $(3+i)$, (D) $(3-i)$
- $\sin x(1 + \cos x)$ will be highest, if:
(A) $x = \pi/3$, (B) $x = \pi/6$, (C) $x = 3\pi/4$, (D) $x = \pi/2$
- What is the highest height if the maximum range if R?
(A) $R/5$, (B) $R/3$, (C) $1/R$, (D) $R/4$
- If $\sqrt{2}P = 1+i$, then $P^6 + P^4 + P^2 + 1 = ?$ (A) -1, (B) 1, (C) 0, (D) None
- Which of the followings is the condition of inverse symmetric matrices? (A) $A = -A'$, (B) $A = A'$, (C) $A = \pm A'$, (D) All
- Three vertices of a parallelogram are (1,3), (2,0) & (5,1); then the 4th vertex will be: (A) (3,3), (B) (4,4), (C) (4,0), (D) (0,-4)
- The points on the parabola $y^2 = 12x$, whose focal distance is 4, are:
(A) $(2, \sqrt{3})$, $(2, -\sqrt{3})$ (B) $(1, 2\sqrt{3})$, $(1, -2\sqrt{3})$, (C) (1,2), (D) None
- When $\cot\theta = \cot\alpha$ then, $\theta = ?$

43. If $y = \tan^{-1}x$, then $d^2y/dx^2 = ?$ (A) 1, (B) $\sec n$, (C) 0, (D) $\tan n$
44. Force 7, 5, 3 acting at a point are in equilibrium. The angle between the forces 5 & 3 is: (A) 120° , (B) 90° , (C) 60° , (D) 30°
45. $(1+i)^8 + (1-i)^8 = ?$ (A) 2^8 , (B) 2^5 , (C) 2^4 , (D) 2^7
46. One dice & one coin are tossed simultaneously. The probability of getting 6 on dice and head on coin is: (A) $1/2$, (B) $1/6$, (C) $1/12$, (D) None
47. In binary form $11.011+1.10 = ?$
(A) 10.001, (B) 111.100, (C) 100.111, (D) None
48. The circle $x^2+y^2+2gx+2fy+c=0$ passing through origin:
(A) $f=0$, (B) $g=0$, (C) $c=0$, (D) $x=y$
49. Two circles' radii r_1 & r_2 , condition of contacting each other externally as under when distance between two centres are:
(A) $r_1 > r_2$, (B) $r_2 > r_1$, (C) $r_2 = r_1$, (D) $r_1 + r_2$
50. If tangent of a centre $x=at^2$, $y=2at$ is perpendicular to x axis then its point: (A) (a,a), (B) (0,a), (C) (a,0), (D) (0,0)

Physics

51. The depth of a pond is 12 m. If the refractive index of water is $4/3$, what is the apparent depth? (A) 4.5m, (B) 0.5m, (C) 4.9m, (D) 9m
52. The angle of dip at the pole is: (A) 90° , (B) 0° , (C) 45° , (D) 30°
53. What is the order of molecular range?
(A) $1 \times 10^{-8}m$, (B) $10 \times 10^{-9}m$, (C) $10 \times 10^{-11}m$, (D) $1 \times 10^{-9}m$
54. The equation of progressive wave is represented by $y=15 \sin(20t-10x)$. What is the velocity of this wave? (A) 0.75, (B) 0.5, (C) 2, (D) None
55. In which year the solar cell was invented?
(A) 1954, (B) 1964, (C) 1960, (D) 1076
56. At which temperature Helium changes to super-fluid?
(A) 2.41K, (B) 2.29K, (C) 2.17K, (D) 6.07K
57. What is the frequency of a photon of energy 100 MeV?
(A) $4.4 \times 10^{22}Hz$, (B) $6.41 \times 10^{22}Hz$, (C) $2.41 \times 10^{22}Hz$, (D) $8.87 \times 10^{22}Hz$
58. What will be the value of acceleration due to gravity g , when the radius of earth is half of the present value? (A) $6g$, (B) $2g$, (C) $4g$, (D) $g/2$
59. What is the value of the earth potential?
(A) 220V, (B) Infinity, (C) 211V, (D) 0V
60. If the sky is cloudy, dews do not form, because the cloud is:
(A) good conductor, (B) bad conductor, (C) heat absorbing, (D) None.
61. What is the effective length of a second pendulum?
(A) 0.093m, (B) 1.993m, (C) 0.993m, (D) 1.094m
62. What is the moment of inertia of a wheel of mass 4 kg and radius of gyration 25 cm?
(A) $25 \text{ kg}\cdot\text{m}^2$, (B) $0.25 \text{ kg}\cdot\text{m}^2$, (C) 0.25 kg^2 , (D) $0.25 \text{ kg}^2\text{m}^2$
63. Which reaction takes place in Hydrogen bomb?
(A) Fission, (B) Fusion, (C) Chemical, (D) Radioactive.
64. The electric field intensity of radio wave is $E_0=10^{-4}\text{Vm}^{-1}$. Find the value of B_0 . (A) $3.33 \times 10^{-13}\text{Wbm}^{-2}$, (B) $3.33 \times 10^{-12}\text{Wbm}^{-2}$, (C) $3.33 \times 10^4\text{Wbm}^{-2}$, (D) $3.33 \times 10^{-4}\text{Wbm}^{-2}$

65. Mechanical practical unit of power is:
(A) Watt, (B) Horse power, (C) Kilowatt, (D) Foot-pound
66. A 200m long train moving with a speed of 36 km/hr passes over a bridge and takes 80 seconds to cross the bridge. How long was the bridge? (A) 400m, (B) 300m, (C) 600m, (D) 450m
67. What will be the length of the minute arm of a watch if the linear speed of the mid-point of the same arm is $1.745 \times 10^{-3} \text{ cm/sec}$?
(A) 1 cm, (B) 3 cm, (C) 4 cm, (D) 2 cm
68. A body of mass 7 kg rests on the floor of a lift. How much be an upward acceleration if the force on body by the floor is 82.6 N?
(A) 4 m/sec^2 , (B) 3 m/sec^2 , (C) 2 m/sec^2 , (D) 5 m/sec^2
69. By a pump of power 980 w, how much Kg of water can be lifted per second to 10m height? (A) 20 kg, (B) 15 kg, (C) 10 kg, (D) 12 kg
70. Which one is the correct formula to find out the radius of earth?
(A) $R = \sqrt{GM/g}$, (B) $R = GM/g$, (C) $R = GM^2/g$, (D) $R = GM/g^2$
71. The maximum force $7.2 \times 10^{-3} \text{ N}$ is applied to lift a needle from the surface of water. Then what is the length of a needle? Surface Tension of water is $72 \times 10^{-3} \text{ Nm}^{-1}$. (A) 4 cm, (B) 2 cm, (C) 5 cm, (D) 3 cm
72. At what temperature the pressure of a gas will be $4 \times 10^5 \text{ Pa}$ if the pressure of a gas at 0°C is $3 \times 10^5 \text{ Pa}$?
(A) 60°C , (B) 91°C , (C) 80°C , (D) 72°C
73. With a battery of how much volts, a capacitor of $3.5 \mu\text{F}$ is charged, so that the amount of energy stored up is $1.75 \times 10^{-4} \text{ J}$?
(A) 12 volts, (B) 20 volts, (C) 7 volts, (D) 10 volts
74. Some bulbs of 100 W each is lighted for 6 hours daily. If the cost of each unit of electricity is Taka 2.50 and bill for 30 days was Tk. 315, then how many bulbs were lighted daily? (A) 5, (B) 7, (C) 10, (D) 4
75. The electrochemical equivalent of copper is $33.34 \times 10^{-8} \text{ kg}\cdot\text{c}$, valency 2 and atomic weight 63.5 then the electrochemical equivalent of hydrogen is: (A) $6.8 \times 10^{-7} \text{ kg}\cdot\text{c}$, (B) $1.05 \times 10^{-8} \text{ kg}\cdot\text{c}$, (C) $3.29 \times 10^{-7} \text{ kg}\cdot\text{c}$, (D) $1.1 \times 10^{-6} \text{ kg}\cdot\text{c}$
76. An electric wire lies along the east-west direction carrying current and due to earth's magnetic field of 10^{-4} T , the force per meter wire is 10^{-3} N , then the wire carries a current: (A) 5 A, (B) 15 A, (C) 10 A, (D) 20 A
77. When a swimming pool is filled with water to 18 ft so that it appears to be half-filled. What is the depth of the pool, when for water $\mu=4/3$?
(A) 36 ft, (B) 27 ft, (C) 30 ft, (D) 24 ft
78. The magnetic field intensity of radio wave is $1 \times 10^{-12} \text{ W/m}^2$ and the velocity of light is $3 \times 10^8 \text{ m/s}$. Then what is the electric field intensity of radio-wave? (A) $2 \times 10^{-5} \text{ V/m}$, (B) $3 \times 10^{-4} \text{ V/m}$, (C) $4 \times 10^{-3} \text{ V/m}$, (D) $2.5 \times 10^6 \text{ V/m}$.
79. The half life of a radioactive element is 6.93 days. It's mean life will be: (A) 8 days, (B) 5.7 days, (C) 10 days, (D) 11.5 days
80. If $K=1.38 \times 10^{-23} \text{ J/k}$, then at what temperature the average kinetic energy of the molecule of Helium gas in a container will be $6.21 \times 10^{-21} \text{ J}$?
(A) 450 K, (B) 300 K, (C) 350 K, (D) 320 K
81. An object having mass of 6 kg is in a static condition. What will be its kinetic velocity 10 seconds after application of 30 N force?
(A) 7,100 J, (B) 7,200 J, (C) 7,400 J, (D) 7,500 J
82. If the length of an wire is 4m, area of cross-section is 0.003 m^2 , breaking stress is $3.267 \times 10^5 \text{ Nm}^2$, then what will be the breaking force of the wire? (A) $9.8 \times 10^2 \text{ N}$, (B) 10^2 kg , (C) 10^2 N , (D) $9.8 \times 10^2 \text{ kg}$

the maximum wave-length of radiation of an object is $25 \times 10^{-6} \text{m}$, when what will be temperature of the object?

(A) 105k, (B) 115.6k, (C) 118 k, (D) 15.92 k

84. An object has heat energy capacity 80 J/Cal. What amount of heat energy will be required to increase its temperature from 10°C to 90°C ?
(A) 2,008 J, (B) 680 J, (C) 6,400 J, (D) None

85. A musical fork having frequency of 664 Hz in air. How far will the sound travel that is produced out of 100 full frequency? The velocity of sound in air is 332ms^{-1} . (A) 25m, (B) 35m, (C) 50m, (D) 0.5m

86. The capacitance of a conductor is 40F; how much charge will be necessary to make its potential 8V?
(A) 320 C, (B) 420 C, (C) 500 C, (D) 160 C

87. The radius of a concave lense is 30 cm. If an object is placed 20 cm distance from the mirror, what will be distance of the image?
(A) 50 cm, (B) 60 cm, (C) 30 cm, (D) 45 cm

88. From how much height a piece of ice falls so that it melts fully.
(A) 36 Km, (B) 340 Km, (C) 34.28 Km, (D) 98 Km

89. Buoyancy of sea-water is more than that of river-water because:
(A) sea is more deep, (B) density of sea-water is more, (C) temperature of sea-water is more, (D) density of sea-water is less.

90. As per Newton's 3rd Law, the angle between action & reaction is:
(A) 0° , (B) 90° , (C) 180° , (D) 360°

91. The dimension of gravitational constant is:
(A) L^2T^{-2} , (B) L^2T^{-1} , (C) $M^{-1}L^3T^{-2}$, (D) MLT^{-2}

92. The angle of contact of liquids that do not wet the glass is:
(A) 90° , (B) Less than 90° , (C) More than 90° , (D) 0°

93. Which mode of transmission of heat is prevented in a thermo-flask.
(A) Conduction, (B) Convection, (C) Radiation, (D) All

94. The light that makes sensation to our eyes to see having minimum & maximum wave-length respectively: (A) blue & yellow, (B) violet & red (C) red & violet, (D) white & black

95. What would be the colour of the sky in absence of atmosphere?
(A) White, (B) Red, (C) Black, (D) Yellow

96. Induced charge in case of electrostatic induction is (A) stable, (B) unstable, (C) insulator, (D) all

97. If electric current flows through a conductor, what is produced:
(A) electric field, (B) magnetic field, (C) excessive heat, (D) no effect.

98. Unite of specific resistance is: (A) ohm-meter, (B) ohm/meter, (C) ohm, (D) volt.

99. The peak-value of 220V AC supply line is:
(A) 220 V, (B) 440 V, (C) 110 V, (D) 311 V

100. The particle that doesn't have mass, but has momentum is:
(A) proton, (B) photon, (C) electron, (D) neutron.

ENGLISH

101. The word 'ecological' is related to: (A) Demography, (B) Pollution, (C) Atmosphere, (D) Environment

102. Choose the correct sentence.
(A) Everybody are gone there, (B) Everybody have gone there, (C) Everybody has gone there, (D) Everybody has went there.

103. Mr. Shahin requested Mr. Kayser _____ telephone to attend the meeting? (A) over, (B) through, (C) with, (D) by.

104. What would have happened if the bridge _____?
(A) is broken, (B) would break, (C) had broken, (D) had been broken.

105. A fantasy is _____.
(A) an imaginary story, (B) a funny film, (C) a historical story, (D) a real story.

106. You _____ go to that room, its forbidden.
(A) don't have to, (B) mustn't, (C) shouldn't, (D) don't know how to.

107. Hardly had the train stopped _____?
(A) before we got down, (B) as we got down, (C) then we got down, (D) when we got down.

108. I saw Lisa at the station when I was going to work this morning but she _____ me. (A) didn't see, (B) don't see, (C) hasn't seen, (D) didn't saw.

109. I am sorry but I haven't got time _____ to you now.
(A) for talking, (B) to talk, (C) talking, (D) talked.

110. The Chairman proceeded as though _____.
(A) I wouldn't speak, (B) I didn't speak, (C) I don't speak, (D) I hadn't spoken.

111. Cartoon: Drawing (A) Comic: Painting, (B) Laughter: Tears, (C) Dirty: Area, (D) Caricature: Portrait.

112. সে যেমন দয়ালু, তেমনি রুঢ়।

(A) He is as kind as he is rude, (B) He is as kind as he is rude, (C) He is as kind as rude, (D) He was as kind as he is rude.

113. সে ভাত খাবেনা, খাবে কী?

(A) He won't eat rice, won't he? (B) He wouldn't eat rice, wouldn't he? (C) He won't eat rice, will he, (D) He won't eat rice, will if?

114. Identify the correct sentence.

(A) Open page at 40, (B) Open page 40, (C) Open at page 40, (D) Open at the page 40.

115. I will carry an umbrella in case _____.

(A) it will rain, (B) it would rain, (C) it rains, (D) it rained.

116. Time after twilight and before night is called _____.

(A) Evening, (B) Dawn, (C) Dusk, (D) Eclipse

117. Which of the followings is not a greeting?

(A) Good evening, (B) Good night, (C) Good morning, (D) Good afternoon.

118. Antonym of the word 'extempore' is _____.

(A) prompt, (B) immediate, (C) spontaneous, (D) prepared.

119. 'Slow coach' means _____.

(A) an irresponsible person, (B) a very lazy person, (C) A careless person, (D) an unthoughtful person.

120. 'Data' is the plural from of which one?

(A) Datire, (B) Datas, (C) Data, (D) Datum.

121. Which of the followings is feminine gender?

(A) Puppy, (B) Mare, (C) Drone, (D) Lion.

122. Which one is plural?

(A) Actress, (B) Princess, (C) Mistress, (D) Princes

123. What is the adjective of the word 'obey'?

(A) Obediently, (B) Obedience, (C) Obedient, (D) Obsolete.

124. What is the noun of the word 'cook'?

(A) Cooker, (B) Cooking, (C) Cook, (D) Cookie.

125. Make the sentence 'Health is wealth' interrogative without changing its meaning.

(A) Is health wealth? (B) Why health is wealth?, (C) Doesn't health wealth? (D) Isn't health wealth?

126. Change the voice of the sentence 'His conduct annoyed me.'

(A) He annoyed me with conduct. (B) I was annoyed with his conduct. (C) I was annoyed from his conduct. (D) I was annoyed at his conduct.

127. Which sentence indicates superlative degree?

(A) Rose is the finest of all flowers. (B) The rose is the finest of all flowers. (C) The rose is finest of all flowers. (D) The rose is the finest of all flower.

128. Choose the correct sentence.

(A) Ten miles are too far to walk. (B) Ten miles is too far to walk. (C) Ten mile is too far to walk. (D) Ten miles have too far to walk.

129. Which one is the correct sentence?

(A) Death is preferable to dishonour. (B) Death is preferable than dishonour. (C) Death is more better than dishonour. (D) Death is more preferable to dishonour.

130. Fill in the blank with right option: 'I don't drink ____ tea.'

(A) much, (B) many, (C) too many, (D) more.

131. Fill in the blank with correct preposition: 'The intellectual can no longer be said to live _____ margins of society.'

(A) against, (B) beyond, (C) inside, (D) before.

132. Choose the appropriate connecting word: '_____ I was walking along the riverside I saw a water-snake.' (A) When, (B) Because, (C) As because, (D) While.

133. Choose the correct sentence:

(A) What did she call you for? (B) For what did she call you? (C) What for did she call you? (D) What did she call for you?

134. Put in correct preposition in the sentence: 'I have no prejudice _____ foreigners.' (A) for, (B) about, (C) against, (D) of.

135. Fill in the blank with correct word: 'Four and four _____ eight.'

(A) makes, (B) make, (C) are, (D) is.

136. Which one is the passive form of the sentence 'Rice sells cheap'.

(A) Rice is sold cheap. (B) Rice is cheap when it is sold cheap. (C) Rice is being sold cheap. (D) None.

137. Fill in the blank in the sentence: 'He _____ before he was put in prison.' (A) has been tortured, (B) had been tortured, (C) will be tortured, (D) is torturing.

138. Choose the appropriate preposition: 'The winter has set _____ very late this year.' (A) out, (B) off, (C) in, (D) up.

139. Neither Rumi nor Poppy _____ qualified for the job.

(A) had, (B) were, (C) is, (D) are.

140. The correct synonym for the word 'insane' is _____.

(A) stupid, (B) senseless, (C) crazy, (D) indolent.

141. 'Could you please help me.' Here 'could' is used as _____.

(A) present tense, (B) future tense, (C) past tense, (D) present perfect tense.

142. 'Go there at once' is:

(A) simple sentence, (B) Optative sentence, (C) assertive sentence, (D) imperative sentence.

143. Which one of the followings is plural?

(A) News, (B) Mathematics, (C) Crises, (D) Economics.

144. Who among the followings is a revolutionary poet?

(A) John Keats, (B) S T Coleridge, (C) P B Shelley, (D) Wordsworth

145. The word 'lunar' is related to:

(A) Moon, (B) Earth, (C) Sun, (D) Light.

146. The word 'quorum' means: (A) Required number, (B) Number, (C) Allowed number, (D) Additional number.

147. Which word is not an adjective? (A) solar, (B) linear, (C) polar, (D) hammer.

148. Which word is not a noun? (A) Articulation, (B) Defame, (C) Simulation, (D) Indemnity.

149. 'All men must die': negative form of this sentence is:

(A) No men will never die. (B) None but all men will die. (C) Nothing but all men must die. (D) None can avoid death.

150. The word 'precedence' means:

(A) example, (B) elderly, (C) priority, (D) case.

General Knowledge

151. Who is the director of the film 'Guerrilla' that is based on Bangladesh Liberation War? (A) Mostofa Sarwar Faruki, (B) Humayun Ahmed, (C) Jahir Rayhan, (D) Nasiruddin Yusuf.

152. How many fundamental principles are there of the Bangladesh Constitution? (A) 4, (B) 5, (C) 6, (D) 8.

153. The 'Unfinished Memoirs (Oshomipto Attojiboni) is the autobiography of: (A) Adolf Hitler, (B) Beneto Musolini, (C) A P J Abul Kalam, (D) Bangabandhu Sheikh Mujibur Rahman.

154. The constitution of Bangladesh is the state's (A) general law, (B) emergency law, (C) fundamental/supreme law, (D) special law.

155. What was the objectives of the 1st amendment of Bangladesh Constitution? (A) declaring emergency, (B) establishing a supreme court, (C) reserving female seats in parliament, (D) prosecution & punishment of genocide & crimes against humanity or war crimes.

156. Bangladesh Land Port Authority is an organisation of which ministry? (A) Shipping, (B) Land Transport & Bridges, (C) Commerce, (D) Hon'ble Prime Minister's Office.

157. Who calls for the session of Bangladesh National Parliament? (A) Hon'ble Prime Minister, (B) Speaker of the Parliament, (C) Hon'ble President, (D) Hon'ble Prime Minister & leader of the opposition jointly.

158. Based on the Gross National Income per Capita, on 1 July 2015, World Bank ranked Bangladesh in: (A) Lower income country, (B) Lower-Middle income country, (C) Middle income country, (D) Higher-Middle income country.

159. What is the expansion of ECNEC?

(A) Executive Committee of National Education Council, (B) Executive Committee of National Economic Council, (C) Emergency Committee for National Environmental Care, (D) Executive Committee for National Ecological Care.

What is the 'private members' bill' in Bangladesh Parliament?
(A) Bill: proposed by opposition party, (B) Bill proposed by any parliament member who is not a member of cabinet, (C) Determined by the speaker depending on the merit of the bill, (D) Bill proposed by any non-government organisation.

161. Who is the current Public Administration Minister of Bangladesh?
(A) Hon'ble Prime Minister herself, (B) Mr. H T Imam, (C) Mr. Syed Ashraful Islam, (D) Currently vacant.

162. Where is the HQ of European Union located?
(A) London, (B) Stockholm, (C) Bam, (D) Brussels.

163. What is the expansion of GSP?
(A) Global System of Preference, (B) Global Standard Procedure, (C) General Standard Policy, (D) Generalized System of Preference.

164. Who is not elected member of the British Parliament Lower House 'House of Commons'? (A) Rushnara Ali, (B) Dr. Rupa Haq, (C) Hasina Momtaz, (D) Tulip Rezowana Siddiq.

165. On which date Bangladesh & India exchanged 162 enclave (chitmahal) with each other? (A) 31 July 2015, (B) 1 January 2015, (C) will take place on 31 July 2016, (D) matter is still uncertain.

166. What is the official/constitutional name of United Kingdom?
(A) United Kingdom, (B) United Kingdom of Great Britain, (C) United Kingdom of Great Britain and South Ireland, (D) United Kingdom of Great Britain and Northern Ireland.

167. Who quoted 'Justice delayed, justice denied'?
(A) Aristotle, (B) William Gladstone, (C) Plato, (D) Socrates.

168. What is the expansion of maritime boundary related international tribunal 'ITLOS'? (A) International Transport Legal Organisation System, (B) International Transport and Law of the Sea, (C) International Telecommunication Legal Organisational System, (D) International Tribunal for the Law of the Sea.

169. Which court gave the verdict on the Bangladesh-India dispute on the maritime boundary delimitation issue?
(A) International Court of Justice, (B) Permanent Court of Justice, (C) International Criminal Court, (D) United Nation's Supreme Court.

170. Para-olympic is organised for whom? (A) for females, (B) for children, (C) for senior citizens, (D) for physically disabled.

171. How many feet in one nautical mile?
(A) 6080, (B) 5280, (C) 5200, (D) None.

172. Where is the HQ of D-8? (A) Istanbul, (B) Dhaka, (C) Bangkok, (D) Jakarta.

173. What is the next number in series 1, 2, 6, 15, 31...?
(A) 46, (B) 56, (C) 66, (D) 65.

174. The inhabitants of New Zealand are called:
(A) Kurdi, (B) Tatar, (C) Red Indian, (D) Mourie ???

175. Which one is the smallest Union of Bangladesh?
(A) Banglabandha, (B) St. Martin, (C) Ramu, (D) Chouhali.

176. What is the capital of South Sudan?
(A) Juba, (B) Abidjan, (C) Winhok, (D) Noakocht.

177. What is the alternate process of 'Jum cultivation'?
(A) Salt, (B) Khandak, (C) Charon, (D) None.

178. When is the 'Human Rights Day'?
(A) 26 June, (B) 1 August, (C) 1 May, (D) 10 December.

179. What is the value of pH of water? (A) 7, (B) 14, (C) 1, (D) None.

180. Which city is the door of Europe? (A) Vienna, (B) Bon, (C) London, (D) Rome.

181. At what temperature, reading is same in Celsius & Fahrenheit ?
(A) 40°, (B) 0°, (C) -80°, (D) None.

182. What is meant by 1 knot?
(A) 1.689 ft/sec, (B) 0.5149 ft/sec, (C) Both, (D) None.

183. What will be the weight of human body in the centre of earth?
(A) Maximum, (B) Minimum, (C) 0, (D) None.

184. Which one is not a country of Middle East?
(A) Morocco, (B) Yemen, (C) Jordan, (D) Qatar.

185. What is the capital of Bahrain?
(A) Damesk, (B) Manama, (C) Panama, (D) None.

186. What is the language of Mauritius?
(A) Dutch, (B) French, (C) English, (D) None.

187. Where is the Mississippi river situated?
(A) Africa, (B) China, (C) Europe, (D) None.

188. Where is the city 'Troy'? (A) Greece, (B) Turkey, (C) Italy, (D) Russia

189. How many colours are there in Olympic flag?
(A) 4, (B) 6, (C) 7, (D) None

190. How many types of 'out' in cricket? (A) 6, (B) 8, (C) 10, (D) 12.

191. Which country is going to launch 5G service?
(A) South Africa, (B) South Korea, (C) South America, (D) None

192. What is IMO? (A) International Muslim Organisation, (B) International Maritime Organisation, (C) International Marine Organisation, (D) None.

193. When was the 1st ship exported to:
(A) Sweden, (B) Denmark, (C) Norway, (D) None.

194. What is 'Banglamoti'?
(A) A type of rice, (B) A type of Jute, (C) A film, (D) None.

195. Who is the 'father of e-mail'? (A) Ray Williamson, (B) B Johnson, (C) William, (D) None.

196. What is Mangrove?
(A) Coastal forest, (B) Evergreen forest, (C) Sal forest, (D) Caraway forest

197. In which year, Colour TV was introduced in Bangladesh?
(A) 1984, (B) 1983, (C) 1981, (D) 1980.

198. What will be the length of Padma Bridge? (A) 71.5, (B) 3.15, (C) 2.15, (D) 6.15.

199. How many suras are there in Quaran?
(A) 118, (B) 116, (C) 112, (D) 114.

200. On which date, the Bangladesh-India land border agreement got approved in the cabinet of India?
(A) 5 May 2015, (B) 8 May 2015, (C) 14 May 2015, (D) 16 May 2015.