



پوهنتون کاردان
KARDAN UNIVERSITY

Entry Test Question Paper
Department of Bachelor's in Political Science and IR

Kabul
Fall 2020

Entry Test
Section One – Mathematics
64 Marks (Forty Minutes)

Directions: Please solve all the 32 questions in this section, every question has two mark. Transfer the correct answer to your answer sheet.

1. The simplified form of the expression $50 \div 10 * 5 - 25 =$
a) 0 b) -24 c) 24 d) 50
2. The simplified form of the expression $4(x + 2) + 3(x + 6) =$
a) $10x + 5$ b) $7x + 26$ c) $9x + 18$ d) $6x + 2$
3. The solution of linear equation $7x - 3 = 5x + 9$ is
a) 10 b) 11 c) 15 d) 6
4. The solution of $[3(4+2)-(10-3)3-2]=?$
a) 10 b) -5 c) 5 d) 6
5. Solve for X, $X+2X-5X= 2$
a) -2 b) -1 c) 1 d) 2
6. The solution of the inequality expression $-2x + 1 > 5$ is equal to
a) $X < -2$ b) $X > 2$ c) $X < 2$ d) $X > -2$
7. The solution of the inequality expression $-5(x-1) < 10$ is equal to
a) $X > 1$ b) $X < 1$ c) $X > -1$ d) $X < -1$
8. The expression in which at least one inequality symbol is involved, is called
a) Linear equation b) First Degree equation c) Inequality d) Both A and B
9. Solve for X, $(2X+2)-(X+3) = 6$
a) -3 b) -7 c) 3 d) 7
10. The multiplication of which of the following is equal to, $a^2-b^2=$
a) $(a+b)(a - b)$ b) $(a+b)(a + b)$ c) $(a-b)(a - b)$ d) None of them
11. The factorization of the expression $x^2- 4 =$
a) $(x-2)(x-2)$ b) $(x-2)(x+2)$ c) $(x+2)(x+2)$ d) None of them
12. The expression 10^{-3} is equal to
a) $1/1000$ b) $1/-1000$ c) $1000/1$ d) $10/100$
13. The group factorization of the expression $x^2 + 4x - 5 =$
a) $(x + 1)(x + 5)$ b) $(x - 1)(x + 5)$ c) $(x - 1)(x - 5)$ d) $(x + 1)(x - 5)$
14. When the base of the algebraic expression is the same then we can
a) Add the powers b) Subtract the powers c) Multiply the powers d) Divide the powers
15. If the whole power of the algebraic expression become zero, then the result is equal to
a) 0 b) 1 c) -1 d) None of them
16. The simplified form the expression $10^{-3} \cdot 10^2 =$
a) 10 b) - 10 c) $1/10$ d) $-1/10$

17. The simplified form of the expression $(100 a^{12} b^6 / 50 a^{11} b^5)^2$
 a) $4a^2 b^2$ b) $4a^{23} b^2$ c) $4a^2 b^{11}$ d) $-4a^2 b^2$
18. The simplified form of the expression $(100 a^{12} b^6 / 50 a^{11} b^5)^{-1}$
 a) $1/2ab$ b) $-1/2ab$ c) $4a^2 b^{11}$ d) $-4a^2 b^2$
19. The simplified form of the expression $(x^{12} / x^{10})^{-1}$
 a) X^{-2} b) X^2 c) X^{22} d) X^{-22}
20. When solving $\sqrt{-4}$ the possible answer is
 a) 2 b) -2 c) No real solution d) None
21. The solution of radical equation $\sqrt{2x-5}=7$ is
 a) 27 b) 54 c) 19/2 d) -19/2
22. The solution of radical equation $\sqrt{x-1}=-1$
 a) 2 b) -2 c) 0 d) None
23. The solution of radical equation $\sqrt{2x-4}=x-2$
 a) $X=2$ and $x=4$ b) $X=-2$ and $x=4$ c) $X=2$ and $x=-4$ d) $X=-2$ and $x=-4$
24. The solution of $x^2+4=0$ is
 a) -2 b) 2 c) $\pm 2i$ d) None of them
25. The solution of the equation $3x^2+14x-5=0$ is
 a) $x=-5$ and $x=1/3$ b) $x=5$ and $x=1/3$ c) $x=5$ and $x=-1/3$ d) $x=-5$ and $x=-1/3$
26. The solution of $x^2+9=0$ is
 a) $x=3i$ and $x=-3i$ b) $x=3$ and $x=-3$ c) Only $x=3$ d) Only $x=-3$
27. The solution of $(3x+1)^2=25$
 a) $x=2$ and $x=4/3$ b) $x=-2$ and $x=4/3$ c) $x=-2$ and $x=-4/3$ d) $x=2$ and $x=-4/3$
28. The solution of $x(3x-10)=25$
 a) $x=5$ and $x=-5/3$ b) $x=-5$ and $x=-5/3$ c) $x=5$ and $x=5/3$ d) $x=-5$ and $x=5/3$
29. If Discriminant $b^2-4ac < 0$ then
 a) The equation has two nonzero complex solution
 b) The equation has one real solution
 c) The equation has two real solution
 d) None of them
30. Quadratic equation is always of
 a) 2nd degree equation b) 1st degree c) 5th degree d) linear
31. The equation in which the power of variable is one is called
 a) Linear equation b) quadratic equation c) parabolic equation d) elastic equation
32. The graph of a linear equation always represents
 a) A straight-line b) curve c) inflection point d) maximum point

Entry Test
Section Two – Logic
64 Marks (forty Minutes)

Directions: Please solve all the 32 questions in this section, every question has two mark. Transfer the correct answer to your answer sheet.

33. Find the next number in the given sequence 104, 109, 115, 122, 130 ...
a) 119 b) 125 c) 139 d) 134
34. Which word does NOT belong with the others?
a) Inch b) gram c) Centimeter d) Yard
35. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?
a) 7 b) 10 c) 12 d) 13
36. If A is greater than B and A is less than C then
a) C is less than B b) C is equal to B c) C is greater than B d) None of the above
37. What number comes next in the given sequence 12, 16, 20, 24, 28....
a) 30 b) 32 c) 34 d) 36
38. If A is equal to B and B is equal to C, then A and C are
a) Not equal b) equal c) Less than Each other d) None
39. Look at this series: 2, 1, (1/2), (1/4), ... What number should come next?
a) 1/8 b) 1/10 c) 1/12 d) 1/16
40. Fill in the blank with appropriate arrangement of letters from the given options. RQP, ONM, LKJ, _____, FED
a) IHG b) CAB c) JKL d) GIH
41. Anita and Geeta are experts in dancing and music. Seeta and Geeta are expert in music and painting. Anita and Neeta are expert in debate and dancing. Neeta and Seeta are expert in Painting and debate. Which girl is not expert in painting?
a) Anita only b) Seeta only c) Anita and Geeta d) Geeta only
42. Is it legal for a man to marry his widow?
a) Yes b) No c) Possible d) Impossible
43. Choose the word which is different from the rest.
a) Cap b) Car c) Hat d) Turban
44. Fareshta is twelve years old. For three years, she has been asking her parents for a dog. Her parents have told her that they believe a dog would not be happy in an apartment, but they have given her permission to have a bird. Fareshta has not yet decided what kind of bird she would like to have.
a) Fareshta's parents like birds better than they like dogs.
b) Fareshta does not like birds.
c) Fareshta and her parents live in an apartment.
d) Fareshta and her parents would like to move.

45. Consider the following statements

- Team A has scored more goals than team B
- Team C has scored fewer goals than team B
- Team A has scored fewer goals than team C

If the first two statements are true then the third statement is

- a) False
- b) True
- c) Uncertain
- d) hard to say

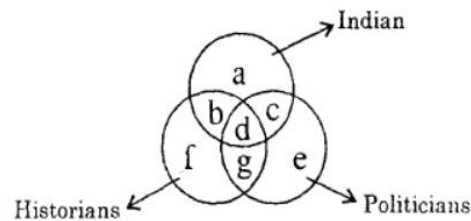
46. If 'air' is called 'green', 'green' is called 'red', 'red' is called 'sea', 'sea' is called 'blue', 'blue' is called 'water' and 'water' is called 'pink', then what is the color of grass?

- a) Green
- b) Air
- c) Red
- d) Pink

47. Anita and Geeta are experts in dancing and music. Seeta and Geeta are expert in music and painting. Anita and Neeta are expert in debate and dancing. Neeta and Seeta are expert in Painting and debate. Which girl is expert in all fields.

- a) Anita
- b) Seeta
- c) Geeta
- d) None of these

48. Point out the letter which represents Indians and historians but not politicians on the basis of these three circles?



- a) b
- b) f
- c) b and f
- d) b and g

49. A, B and C are intelligent, A, D and E are laborious, D, C and E are honest, A, B, and E are ambitious. Who is neither laborious nor honest?

- a) A and D
- b) B only
- c) E only
- d) C only

50. If, in a language, 'one' is called 'two', 'two' is called 'three', 'three' is called 'four', 'four' is called 'five' and 'five' is called 'six'. Then what is the square of number 2?

- a) Three
- b) Four
- c) Five
- d) Six

51. If the sum of two angles of triangle is 105 then what will be the value of third angle?

- a) 60
- b) 75
- c) 90
- d) 180

52. If Ahmad is the brother of Shagofta; Shagofta is the sister of Naseer; and Naseer is the father of Samim, how Samim is related to Ahmad?

- a) Brother
- b) Sister
- c) Nephew
- d) Cannot determine

53. If the sum of x , $x+2$ and $x+3$ is 44 then what will be the value of $x-4$?

- a) 8
- b) 9
- c) 10
- d) 11

54. Watch is to time as compass is to

- a) Speed
- b) Needle
- c) Direction
- d) Hiking

55. Look at this series: 36, 34, 30, 28, 24 ... What number should come next?

- a) 22
- b) 26
- c) 23
- d) 20

56. Which word does NOT belong with the others?

- a) index
- b) glossary
- c) list of acronyms
- d) Desk

57. JAK, KBL, LCM, MDN, _____
 a) OEP b) NEO c) MEN d) PFQ
58. Fill the blank in the sequence, B2CD, _____, B6CD, B8CD, B10CD
 a) B2C2D b) B4CD c) B2C3D d) BCD7
59. What word would you use to describe a man who does not have all his fingers on one hand?
 a) Abnormal b) Disable c) Normal d) sick
60. If you have a bowl with six apples and you take away fours. How many do you have?
 a) 1 b) 2 c) 3 d) 4
61. Here are some words translated from an artificial language
 i. moolokarn means blue sky
 ii. wilkospadi means bicycle race
 iii. mooloSilko means blue car
 Which of the following words mean "racecar"?
 a) wilkozwet b) spadiwilko c) moolobreil d) spadiSilko
62. Pointing to a man in the photograph a woman said, "His brother's father is the only son of my grandfather".
 How is the woman related to the man in the photograph?
 a) Mother b) Aunt c) Sister d) Daughter
63. What word does not belong in the following
 a) banana b) apple c) mango d) pumpkin
64. Choose the word which is least like the other words in the group.
 a) Grenade b) Katana c) Shotgun d) Revolver

Entry Test
Section Three – General Knowledge
64 Marks (Thirty Minutes)

Directions: Please solve all the 32 questions in this section, every question has two mark. Transfer the correct answer to your answer sheet.

65. The Bonn Agreement was signed in the year:
a) 2000 b) 2001 c) 2002 d) None
66. Who was the leader of Taliban while they were ruling in Afghanistan?
a) Mullah Mansoor b) Usama Bin Laden c) Mullah Brother d) None of above
67. The biggest province of Afghanistan geographically is:
a) Kabul b) Herat c) Helmand d) Badakhshan
68. World War two started and ended from
a) 1939 till 1943 b) 1939 till 1944 c) 1939 till 1945 d) 1939 till 1946
69. Niagara Falls are in:
a) Nepal b) Saudi Arabia c) Canada d) None of above
70. Hazrat Ali (RA) was _____ Caliph of Islam
a) First b) Third c) Second d) Fourth
71. The First Surah of the Holy Quran is:
a) Al-Baqara b) Al-Fatihah c) Al-Nas d) Iqra
72. The most populated country in the world is
a) India b) USA c) China d) Australia
73. Ryadh is the capital city of
a) Qatar b) Bahrain c) Saudi Arabia d) China
74. United Nations Organization was established in
a) 1933 b) 1954 c) 1926 d) 1945
75. COVID-19 started in the year:
a) 2018 b) 2019 c) 2020 d) None of above
76. How many continents are there in the world?
a) 4 b) 8 c) 6 d) 7
77. Which country has the most registered cases of Coronavirus till now?
a) China b) Brazil c) Russia d) USA
78. Which of the following is responsible for the world health issues?
a) WFP b) HWO c) WHO d) None of above
79. Which of the following social media platform has more users?
a) Twitter b) Instagram c) Facebook d) LinkedIn

80. Maulan Jaludin Balkhi is buried in:
 a) Balkh b) Iran c) Rome d) None of above
81. The first presidential election in Afghanistan was in:
 a) 1991 b) 1973 c) 2006 d) 2004
82. How many provinces does Afghanistan have?
 a) 30 b) 32 c) 33 d) 34
83. What is earthquake measured with?
 a) Richter scale b) pulse oximeter c) Thermometer d) None of above
84. Joseph Stalin was leader of:
 a) Russia b) Brazil c) UK d) Afghanistan
85. www stands for
 a) world wide web b) worldwide weapon c) world wide wrestling d) world wide website
86. The first wife of the Prophet Muhammad (PBUH) was:
 a) Bebe Zainab b) Bebe Maryam c) Bebe Khadijah d) Bebe Ayshah
87. Kazakhstan and Uzbekistan are countries of
 a) Central Asia b) East Asia c) Far Asia d) South Asia
88. Mathnawi e Manawi is poetry of:
 a) Jalaluddin Rumi Balkhi b) Khushal Khan Khattak c) Sadi Shirazi d)None
89. The richest man in the world is:
 a) Steve Jobs b) Ali Baba c) Bill Gates d) Sher Khan Farnud
90. The author of The Forty Rules of Love is:
 a) Elif Shafak b) Shiv Khera c) Ahmad Rashid d) Asadullah Ghazanfar
91. The founder of modern Turkey is:
 a) Abdul Hameed Pasha b) Namak Kamal c) Anwar Pasha d) Mustafa Kemal Ataturk
92. Pakistan was established in the year:
 a) 1948 b) 1946 c) 1947 d) 1950
93. First Atomic bomb used by USA on Japan was in
 a) Hiroshima b) Nagasaki c) Tokyo d) None of the above
94. French revolution was in the year
 a) 1779 b) 1789 c) 1798 d) 1804
95. 1917 revolution in Russia is known as
 a) Industrial revolution b) Haiti revolution
 c) Bolshevik revolution d) French revolution

96. One of the following Kings of Afghanistan is known as Iron Emir (امير آهنين)
- Amir Abdul Rahman Khan
 - Amir Dost Mohammad Khan
 - Amir Sher Ali Khan
 - Amir Amanullah Khan

Entry Test
Section Four – English Language
64 Marks (forty Minutes)

Directions: Please solve all the 32 questions in this section, every question has two mark. Transfer the correct answer to your answer sheet.

97. The fast food restaurant was _____ dirty. We didn't eat there.
- extreme
 - extremely
 - bit
 - very much
98. This restaurant is _____ the one over there.
- Traditional
 - traditionaler
 - more traditional than
 - traditionaler than
99. My coffee was _____ yours. I almost burned by mouth.
- hotter than
 - hotter then
 - hotter as
 - as hot
100. The _____ coffee in the world comes from Indonesia.
- Expensive
 - expensivest
 - more expensive
 - most expensive
101. I _____ sushi.
- Eaten
 - have eat
 - have ever eaten
 - have never eaten
102. She has _____ finished this week's report.
- Yet
 - already
 - ever
 - never
103. I don't think you _____ them.
- should to email
 - should email
 - should emailing
 - should emails
104. In the future there _____ cures to the world's worst diseases.
- might be
 - is going to being
 - will being
 - might have
105. The weather was notto go for a walk so they decided to stay at home.
- More good
 - Good enough
 - Too good
 - None of the above
106. If my new company is successful, I _____ employ people to help me.
- Will
 - be able to
 - will be able to
 - will able to
107. The first reality TV show _____ in Sweden in 1997.
- showed
 - shown
 - is shown
 - was shown
108. The film Avatar was directed _____ James Cameron.
- By
 - from
 - for
 - with
109. I've had my cat _____ 4 years.
- Since
 - for
 - with
 - it
110. Her horse is lovely. She _____ it since she was a teenager.
- had
 - has had
 - had
 - is had

111. I've received 33 emails ____ .
 a) on Friday b) yesterday c) two days ago d) this week
112. Oxfam is a charity ____ tries to find lasting solutions to poverty.
 a) Who b) which c) it d) None
113. She ____ obsessed with rock climbing at a young age.
 a) becomes b) became c) has become d) would become
114. He's not a stamp collector, ____?
 a) was he b) wasn't he c) is he d) isn't he
115. How long ____ you had this car?
 a) Did b) do c) have d) were
116. ____ anyone get hurt?
 a) did b) were c) have d) had
117. He ____ about birds. It drives me mad!
 a) forever talk b) is forever talking c) will forever be talking d) has forever been talking
118. She keeps ____ her things all around the place which is so annoying.
 a) to leave b) leaves c) leave d) leaving

Passage One

Read the following text and answers the following questions.

The Rio Grande

Although not the longest river in America, the Rio Grande is one of the most important. But, unlike other significant rivers, it is not used for shipping. In fact, oceangoing ships cannot navigate the waters. No, what makes the Rio Grande so important is its location. Since 1846, it has been the official border of Texas and Mexico.

Rio Grande Geography

The Rio Grande is either the fourth or fifth longest river system in North America. It all depends on how it is measured. Because the river **twists** so much, it occasionally changes course. And these course shifts can cause it to be longer or shorter. At its last official measure, the Rio Grande clocked in at 1,896 miles. The river starts in Colorado and extends downward to the Gulf of Mexico. Downward is the best way of describing it too. Not only does the river extend south, but it also starts in the mountains and gets lower and lower in elevation as it extends to the Gulf. Its name is Spanish for the "Big River," but the Rio Grande is actually known as Rio Bravo in Mexico. "Bravo" translates as "**furious**," so the name makes sense. Because of its twists and turns, it certainly does seem to be angrier than most rivers!

The Rio Grande Today

The Rio Grande today is mostly used as a source of drinking water. Sadly, much of the water has been drained from the river. Parts of the river are almost dry! This is because people use more water from the river than the river can get back from rain and other sources. Experts are working to correct this, though, with hopes of restoring the river to its past strength. Today, the river is important as a source of water for Texans and Mexicans. More important, it is a symbol of cooperation between two nations. Though borders like the Rio Grande separate nations, they are also shared spaces. The Rio Grande is therefore a symbol of friendship and peace between two peoples.

119. According to the passage, why is the Rio Grande so important?
- a) It is a source of drinking water for most of the United States.
 - b) It is the border of Texas and Mexico.
 - c) is the longest river system in the United States.
 - d) It is known by two different names
120. In paragraph 2, the author most likely writes that “downward is the best way of describing it too” to
- a) prove that the Rio Grande’s water levels have gone down recently
 - b) argue that the Rio Grande has changed shape over the years
 - c) highlight the fact that the Rio Grande flows south and from high elevations
 - d) explain why the Rio Grande is known as the Rio Bravo down in Mexico
121. Based on its use in paragraph 3, the word furious most nearly means
- a) angry
 - b) large
 - c) twisted
 - d) dry
122. According to the passage, the Rio Grande has endpoints in
- a) Texas and the Gulf of Mexico
 - b) New Mexico and Colorado
 - c) Texas and Mexico
 - d) Colorado and the Gulf of Mexico
123. The word “twist” in the passage is closest in meaning to
- a) come
 - b) ship
 - c) turn
 - d) bring

Passage Two

Read the text and answer the following questions.

Think about it. Your brain is always “on.” It takes care of your thoughts and movements, your breathing and heartbeat, your senses — it works hard 24/7, even while you’re asleep. This means your brain requires a constant supply of fuel. That “fuel” comes from the foods you eat — and what’s in that fuel makes all the difference. Put simply, what you eat directly affects the structure and function of your brain and, ultimately, your mood.

As the old saying goes, you are what you eat. The food you eat obviously affects your body’s performance. They may also influence how your brain handles the tasks. If it handles them well, you think more clearly and you are more emotionally stable. Many foods can help keep your brain healthy. Some foods, such as the fruits and vegetables in this list, as well as tea and coffee, have antioxidants that help protect your brain from damage. Others, such as nuts and eggs, contain nutrients that support memory and brain development.

The right foods can help you concentrate, keep you motivated, **sharpen** your memory, speed your reaction time, defuse stress and perhaps even prevent brain aging. Most people associate the term fat with poor health. We are encouraged to eat fat-free foods and to **drain** fat away from fried foods. To understand its psychological benefits, however, we have to change the paradigm for how we think about fat.

Foods that are high in saturated fats include meat, butter and other animal products. In general saturated fats are solid at room temperature. Foods high in unsaturated fats include vegetable oils, nuts and avocados. Unsaturated fats, if separated out, are usually liquid at room temperature.

124. According to the first paragraph, which sentence is not true.
 a) Our brain is always on
 b) Our brain stops functioning while we are asleep
 c) Our brain needs to have fuel all the time
 d) What we eat can directly affect the function of our brain
125. Which statement is true according to the text?
 a) Food only affects on our body performance.
 b) Food affects not only on our body but on our brain too.
 c) The only thing which is influenced by food is the function of our brain.
 d) None of the above
126. The word (drain away) in line number six of passage is closest in meaning to
 a) Restrain from b) Countinue c) Use d) Increase
127. Which of the following foods does not have saturated fats?
 a) Animal products b) Fruits c) Butter d) Steak
128. Which of the following options can be considered as a synonym for Sharpen in line four.
 a) Devalue b) Lighten c) Strengthen d) Weaken

Entry Test
Section Five – Sciences
64 Marks (Thirty Minutes)

Directions: Please solve all the 32 questions in this section, every question has two mark. Transfer the correct answer to your answer sheet.

129. Element that show the properties of both metals and non-metals are called _____
 a) Metalloids b) Allotropes c) Alloys d) Colloids
130. Nail polish remover contains?
 a) Benzene b) Acetic acid c) Acetone d) Petroleum ether
131. Atomic number of an element gives _____.
 a) The number of nucleons in its atom.
 b) The number of electrons in its atom.
 c) The weight of the atom of the element.
 d) The total number of elementary particles in its atom.
132. Water drops are spherical because of _____.
 a) Viscosity b) Density c) Polarity d) Surface tension
133. Which one of the following gas is readily soluble in water at room temperature?
 a) Chlorine b) Nitrogen c) Ammonia d) Carbon dioxide
134. Which have the maximum density.
 a) water b) benzene c) ice d) chloroform
135. PH of water is.
 a) 5 b) 6 c) 7 d) 8
136. Which one of the following is the softest _____?
 a) Sodium b) Iron c) Aluminum d) Lithium

137. Who proposed first atomic theory?
 a) Rutherford b) De Broglie c) John Dalton d) D.I. Mendeleev
138. Air contains maximum amount of _____?
 a) Oxygen b) Nitrogen c) Hydrogen d) Carbon dioxide
139. What is a mixture of potassium nitrate powdered charcoal and Sulphur called _____?
 a) Paint b) Aluminium c) Brass d) Gun powder
140. Which acid is present in lemon _____?
 a) Marlic acid b) Citric acid c) Lactic acid d) Tartaric acid
141. Who is regarded as father of modern chemistry _____?
 a) Rutherford b) Einstein c) Lavoisier d) C. V. Raman
142. Which among the following is called laughing gas popularly?
 a) Nitric oxide b) Nitrous oxide c) Nitrogen Penta Oxide d) Nitrogen
143. Which of the following does not increase when we move from left to right along a period in the periodic table.
 a) Oxidizing power of elements.
 b) Electronegativity
 c) Non-metallic character
 d) Reducing power
144. What among following is used to produce artificial rain?
 a) Copper oxide b) Carbon monoxide c) Silver iodide d) Silver nitrate
145. Iodine can be separated from a mixture of iodine and potassium chloride by?
 a) Filtration b) sublimation c) distillation d) sedimentation
146. The isotope of atoms differ in?
 a) Number of neutrons b) Atomic number c) Number of electrons d) Atomic weight
147. Human bone does not contain?
 a) Calcium b) Carbon c) Phosphorous d) oxygen
148. The most malleable metal is?
 a) Platinum b) gold c) Silver d) Iron
149. The changes in a body motion is:
 a) Velocity b) Force c) Acceleration d) Speed
150. An object has started motion from rest and after 5 second has a velocity of 11m/s, the distance which is passed by the object is:
 a) 10.2m b) 13m c) 12.5m d) 12.1m
151. Friction is the:
 a) force of motion b) force against motion c) force parallel to motion d) None
152. Radiocarbon is produced in the atmosphere as a result of:
 a) Collision between fast neutrons and nitrogen nuclei present in the atmosphere
 b) Action of ultraviolet light from the sun on atmospheric oxygen
 c) Action of solar radiations particularly cosmic rays on carbon dioxide present in the atmosphere
 d) None

153. It is easier to roll a stone up a sloping road than to lift it vertical upwards because:
- work done in rolling is more than in lifting
 - work done in lifting the stone is equal to rolling it
 - work done in both is same but the rate of doing work is less in rolling
 - work done in rolling a stone is less than in lifting it
154. The number of Newton's law are:
- 2
 - 1
 - 4
 - 3
155. Nuclear sizes are expressed in a unit named:
- Fermi
 - Angstrom
 - Newton
 - Tesla
156. Calculate the work which is done on an object due to external force of 50N with positive angle 30° in 10m distance
- 123 J
 - 150 J
 - 200 J
 - 433 J
157. Which of the following is not a vector quantity?
- Speed
 - Velocity
 - Torque
 - None
158. Two electric bulbs marked 25W – 220V and 100W – 220V are connected in series to a 440V supply. Which of the bulbs will fuse?
- 25 W
 - 12W
 - 14W
 - 10W
159. The study of living being is called
- Animalogy
 - Paracitology
 - Biology
 - oceanology
160. The process of turning sun light into energy by plants is called
- Solar Energy
 - Plantation
 - Photosynthesis
 - Energy Consumption