

Atomic Energy Central School No. 4 Rawatbhata  
Multiple Choice Question Examination (October 2019)

Class IX

Subjects: Mathematics, Science and Social Science

MM: 120

Name: \_\_\_\_\_ Class/Sec: \_\_\_\_\_

OMR Roll No: \_\_\_\_\_ Invigilator's Sign: \_\_\_\_\_

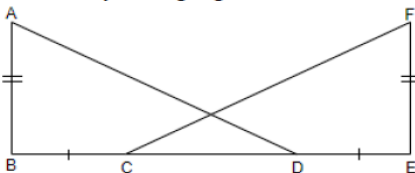
- Instruction: 1) Fill & darken roll number field correctly on OMR Sheet. In case of any error, OMR Answer Sheet will be not be read by the OMR Scanner.  
2) Darken the most suitable option no. on OMR Answer Sheet.  
3) There is no negative marking.

**Mathematics**

1. In  $\triangle ABC$ , if  $\angle B = 30^\circ$  and  $\angle C = 70^\circ$ , then which of the following is the longest side? 1

- a) AC b) BC  
c) AB d) AB or AC

2. In the adjoining figure,  $AB \perp BE$  and  $FE \perp BE$ . If  $AB = FE$  and  $BC = DE$ , then 1

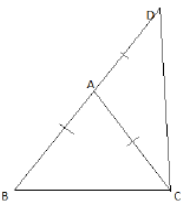


- a)  $\triangle ABD \cong \triangle EFC$  b)  $\triangle ABD \cong \triangle CEF$   
c)  $\triangle ABD \cong \triangle ECF$  d)  $\triangle ABD \cong \triangle FEC$

3.  $\triangle ABC \cong \triangle PQR$ , then which of the following is true? 1

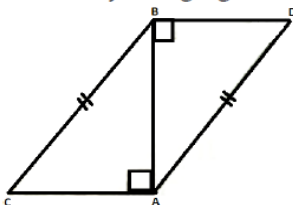
- a)  $CA = RP$  b)  $CB = QP$   
c)  $AB = RP$  d)  $AC = RQ$

4. In an isosceles,  $\triangle ABC$   $AB = AC$  and side BA is produced to D such that  $AB = AD$ . Then the measure of  $\angle BCD$  is 1



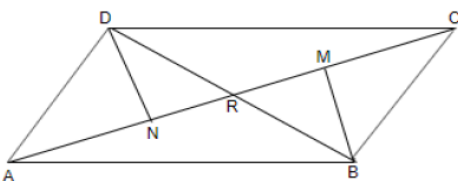
- a)  $70^\circ$  b)  $90^\circ$   
c)  $100^\circ$  d)  $60^\circ$

5. In the adjoining figure,  $BC = AD$ ,  $CA \perp AB$  and  $BD \perp AB$ . The rule by which  $\triangle ABC \cong \triangle BAD$  is 1



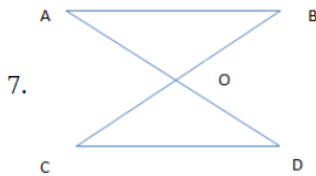
- a) ASA b) RHS  
c) SSS d) SAS

6. In quadrilateral ABCD, BM and DN are drawn perpendiculars to AC such that  $BM = DN$ . If  $BR = 8$  cm. then BD is 1



- a) 12 cm  
c) 16 cm

- b) 4 cm  
d) 2 cm



1

In the above figure  $AB \parallel CD$ , O is the mid point BC. Which of the following is true?

- a)  $\triangle AOB \cong \triangle DOC$   
c) O is the mid point of AD
- b)  $AB = CD$   
d) All are true

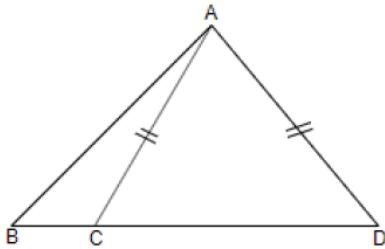
8. In  $\triangle PQR$ ,  $\angle P = 60^\circ$ ,  $\angle Q = 50^\circ$ . Which side of the triangle is the longest?

1

- a) QR  
c) PQ
- b) PR  
d) None.

9. In the adjoining figure, if  $AC = AD$ , then

1



- a)  $AB \leq AD$   
c)  $AB < AD$
- b)  $AB = AD$   
d)  $AB > AD$

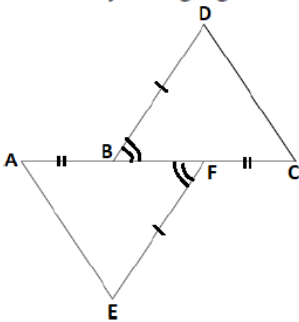
10. The length of two sides of a triangle are 7 units and 10 units. Which of the following length can be the length of the third side?

1

- a) 3 cm  
c) 17 cm
- b) 19 cm  
d) 13 cm

11. In the adjoining figure,  $AB = FC$ ,  $EF = BD$  and  $\angle AFE = \angle CBD$ . Then the rule by which  $\triangle AFE \cong \triangle CBD$

1



- a) SSS  
c) ASA
- b) AAS  
d) SAS

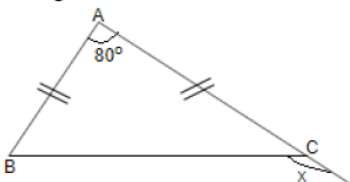
12. In a triangle ABC,  $\angle B = 35^\circ$  and  $\angle C = 60^\circ$ , then the shortest side is

1

- a) BC  
c) AB and BC
- b) AB  
d) AC

13. In fig, in  $\triangle ABC$ ,  $AB = AC$ , then the value of x is:

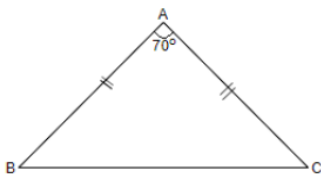
1



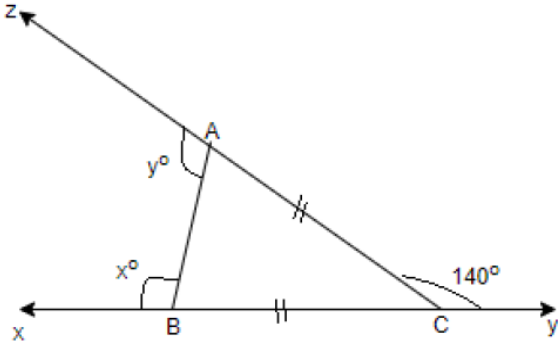
- a)  $120^\circ$   
c)  $130^\circ$
- b)  $100^\circ$   
d)  $80^\circ$

14. In the adjoining figure,  $AB = AC$  and  $\angle A = 70^\circ$ , then  $\angle C$  is

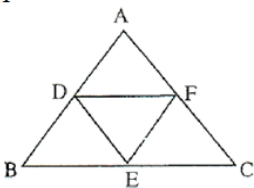
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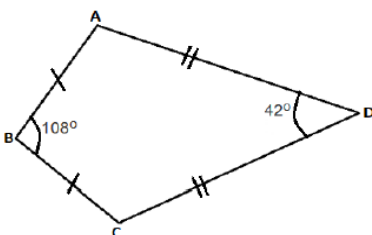
- a)  $110^\circ$  b)  $40^\circ$   
 c)  $70^\circ$  d)  $55^\circ$
15. In  $\triangle ABC$ ,  $\angle A = 50^\circ$ ,  $\angle B = 60^\circ$ , Find the longest side of the triangle 1  
 a) BC b) Cannot be determined  
 c) CA d) AB
16. In right angled  $\triangle DEF$  if  $\angle E = 90^\circ$ , then: 1  
 a) DE is the longest side b) DF is the shortest side  
 c) EF is the longest side d) DF is the longest side
17. In fig,  $AC = BC$  and  $\angle ACY = 140^\circ$ . Find X and Y: 1



- a)  $80^\circ$  and  $80^\circ$  b)  $110^\circ$  and  $110^\circ$   
 c)  $95^\circ$  and  $105^\circ$  d)  $50^\circ$  and  $120^\circ$
18. If the bisector of the angle A of a  $\triangle ABC$  is perpendicular to the base BC of the triangle then the triangle ABC is : 1  
 a) Isosceles b) Obtuse Angled  
 c) Equilateral d) Scalene
19. It is not possible to construct a triangle when its sides are: 1  
 a) 6 cm, 7 cm, 7 cm b) 3 cm, 5 cm, 5 cm  
 c) 8.3 cm, 3.4 cm, 6.1 cm d) 5.4 cm, 2.3 cm, 3.1 cm
20. D, E and F are the mid points of sides AB, BC and CA of  $\triangle ABC$ . If perimeter of  $\triangle ABC$  is 16 cm, then perimeter of  $\triangle DEF$ . 1



- a) 32 cm b) 8 cm  
 c) NONE OF THESE d) 4 cm
21. For any  $\triangle ABC$ ,  $AB + BC$  is always: 1  
 a) None of these b) Greater than AC  
 c) Less Than AC d) Equal to AC
22. In figure, ABCD is a quadrilateral in which  $AB = BC$  and  $AD = DC$ . The measure of  $\angle BCD$  is: 1

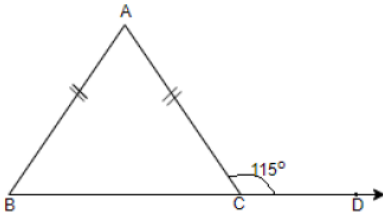


- a)  $30^\circ$  b)  $105^\circ$   
 c)  $150^\circ$  d)  $72^\circ$

23. In  $\triangle AOC$  and  $\triangle XYZ$ ,  $\angle A = \angle X$ ,  $AO = XY$ ,  $AC = XZ$ , then by which congruence rule  $\triangle AOC \cong \triangle XYZ$ ? 1

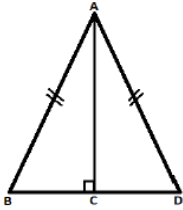
- a) SSS b) SAS  
 c) RHS. d) ASA

24. In the adjoining figure,  $AB = AC$ . If  $\angle ACD = 115^\circ$ , then the measure of  $\angle A$  is 1



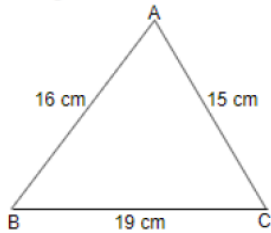
- a)  $70^\circ$  b)  $57.5^\circ$   
 c)  $50^\circ$  d)  $65^\circ$

25. In the adjoining figure,  $AB = AC$  and  $AD \perp BC$ . The rule by which  $\triangle ABD \cong \triangle ACD$  is 1



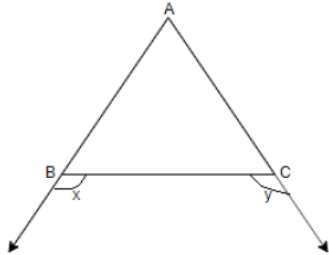
- a) RHS b) ASA  
 c) SAS d) SSS

26. In fig. which of the following statement is true? 1



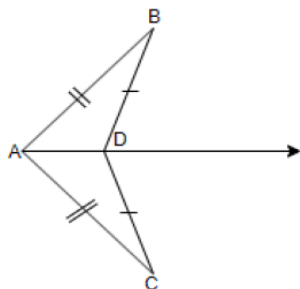
- a)  $\angle A$  is the smallest angle in the triangle. b)  $\angle B$  is the greatest angle in the triangle  
 c)  $\angle B$  is the smallest angle in the triangle d)  $\angle B = \angle C$

27. In the given figure, ABC is an equilateral triangle. The value of  $x + y$  is 1



- a)  $200^\circ$  b)  $240^\circ$   
 c)  $120^\circ$  d)  $180^\circ$

28. In fig.,  $\triangle ABD \cong \triangle ACD$ ,  $AB = AC$ ,  $BD = DC$  name the criteria by which the triangles are congruent: 1



- a) ASA b) RHS  
 c) SSS d) SAS

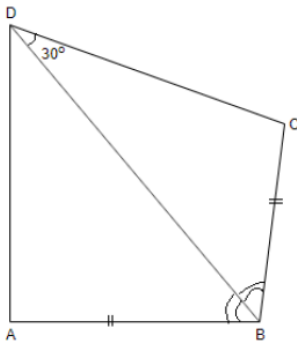
29. If  $\triangle ABC \cong \triangle PQR$  by SSS congruence rule, then: 1

- a)  $AC = QR$  b)  $BC = PQ$   
 c)  $AC = PQ$  d)  $BC = QR$

30. In  $\triangle ABC$ , if  $\angle A = 45^\circ$  and  $\angle B = 70^\circ$ , then the shortest and the longest sides of the triangle are respectively, 1

- a) BC, AB b) AB, BC  
 c) BC, AC d) AB, AC

31. In the adjoining figure,  $AB = BC$  and  $\angle ABD = \angle CBD$ , then another angle which measures  $30^\circ$  is 1

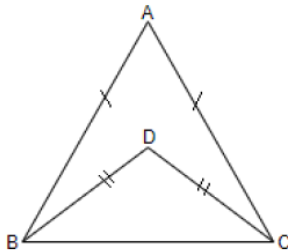


- a)  $\angle BCA$  b)  $\angle BCD$   
 c)  $\angle BDA$  d)  $\angle BAD$

32. If triangle PQR is right angled at Q, then 1

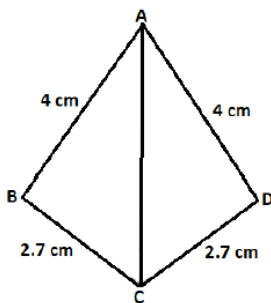
- a)  $PR > PQ$  b)  $PR < QR$   
 c)  $PR = PQ$  d)  $PR < PQ$

33. In the adjoining figure,  $AB = AC$  and  $BD = CD$ . The ratio  $\angle ABD : \angle ACD$  is 1



- a) It is 1 : 1 b) It is 1 : 2  
 c) It is 2 : 3 d) It is 2 : 1

34. In the adjoining figure, the rule by which  $\triangle ABC \cong \triangle ADC$  1

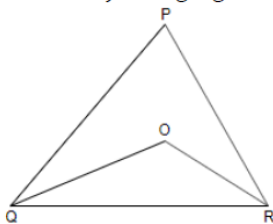


- a) SAS b) SSS  
 c) AAS d) RHS

35. In  $\triangle ABC$  and  $\triangle PQR$ , three equality relations between corresponding parts are as follows:  $AB = QP$ ,  $\angle B = \angle P$ ,  $BC = PR$ . State which of the congruence criterion applies in this case: 1

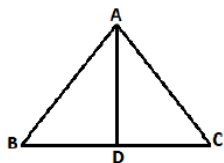
- a) SSS b) AAS  
 c) SAS d) ASA

36. In the adjoining figure,  $PQ > PR$ . If OQ and OR are bisectors of  $\angle Q$  and  $\angle R$  respectively, then 1



- a)  $OQ \leq OR$  b)  $OQ > OR$   
 c)  $OQ = OR$  d)  $OQ < OR$

37. AD is the median of the triangle. Which of the following is true? 1

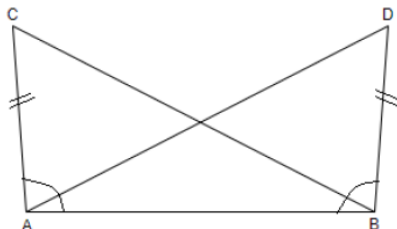


- a)  $AC + CD < AB$  b)  $AB + BD < AC$   
 c)  $AB + BC + AC > AD$  d)  $AB + BC + AC > 2AD$

38. In  $\triangle ABC$  and  $\triangle PQR$ ,  $AB = PR$  and  $\angle A = \angle P$ . Then, the two triangles will be congruent by SAS axiom if: 1

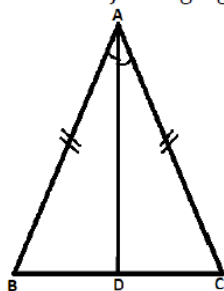
- a)  $BC = QR$  b)  $BC = PQ$   
 c)  $AC = PQ$  d)  $AC = QR$

39. In the adjoining figure,  $AC = BD$ . If  $\angle CAB = \angle DBA$ , then  $\angle ACB$  is equal to 1



- a)  $\angle ABC$  b)  $\angle BDA$   
 c)  $\angle ABD$  d)  $\angle BAD$

40. In the adjoining figure,  $AB = AC$  and AD is bisector of  $\angle A$ . The rule by which  $\triangle ABD \cong \triangle ACD$  1



- a) SSS b) SAS  
 c) AAS d) ASA

## Science

41. Which one is true about the behaviour of MgO in the presence of water? 1

- a) It is acidic b) It is basic  
 c) It is amphoteric d) It is neutral

42. Identify the incorrect statement(s). 1

- a) Atoms of the same element may have different masses. b) Atoms of different elements may have same masses.  
 c) None of these d) Atoms have been found to be made up of sub-atomic particles.

43. Which of the two statement(s) is/are true? 1

**Statement A :** Atomic mass of an element is not its actual mass but relative mass.

**Statement B :** With the help of STM, it is possible to take the photograph of some atoms.

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

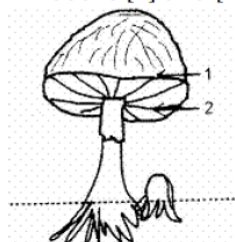
44. A student puts one big iron nail in a test tube containing solution of copper sulphate. He observed that after sometime 1

- a) the solution turns light green b) the solution turns colourless  
 c) the nail is unchanged d) the solution remains blue in colour

45. Symbol of Iron is :- 1

- a) Ir b) Fe  
 c) None of these d) I

46. SO is 1
- a) acidic b) amphoteric  
 c) basic d) neutral
47. Sample of water from a well is analysed. What will be the ratio of hydrogen and oxygen in it by mass? 1
- a) 1:8 b) 8:1  
 c) 2:16 d) 1:8 or 2:16
48. Which is not observed when zinc granules are added to dilute sulphuric acid in a test tube? 1
- a) Bubbles of gas escaping from the tube b) Gradual decrease in the size of the granules  
 c) Precipitate at the bottom of the tube d) Heat energy evolved in the reaction
49. Which of the following elements are present in Quick lime? 1
- a) Sodium, Hydrogen, Oxygen b) Calcium chloride  
 c) Calcium, Bromine d) Calcium, Oxygen
50. SO is 1
- a) both (oxidising agent) and (reducing agent) b) reducing agent  
 c) oxidising agent d) chemical agent
51. Mosses are 1
- a) Monoecious b) Both Monoecious and Dioecious  
 c) Dioecious d) None of these
52. Hyphae are found in 1
- a) Both Algae and Fungi b) Lichens  
 c) Fungi d) Algae
53. Amoeba, paramecium are examples of organism from which kingdom? 1
- a) Monera b) Fungi  
 c) Protista d) Plantae
54. Corals are 1
- a) Poriferans present at the sea bed b) Cnidarians that live in colonies  
 c) Poriferans attached to some solid support d) Cnidarians, that are solitary living
55. Some students want to prepare a temporary mount of spirogyra. Where should they search for a fresh specimen? 1
- a) In a stream of running salty water b) In a pond of a salty water  
 c) In a pond of stagnant dirty water d) In a stream of running fresh water
56. Phylum possessing jointed appendages or legs is 1
- a) Porifera b) Arthropoda  
 c) Mammals d) Annelida
57. The lowest category of classification is 1
- a) Order b) Family  
 c) Species d) Genus
58. Which of the following is a monocot? 1
- a) Mango b) Mustard  
 c) Carrot d) Wheat
59. What are [1] and [2] in the given diagram? 1



- a) Gills and annulus b) Pileus and stipe  
 c) Stipe and annulus d) Pileus and gills

60. Pteridopyta do not have 1
- a) stem b) flowers  
 c) leaves d) root
61. A plant is diploid and well adapted to extreme conditions. They grow bearing sporophylls in compact structures called cones. Identify the group to which it belongs : 1
- a) Pteridophyta b) Bryophyta  
 c) Angiosperms d) Gymnosperms
62. Monocots and Dicots are the features of 1
- a) Gymnosperms b) Bryophytes  
 c) Angiosperms d) Pteridophytes
63. Which of the following organisms is not classified as plants? 1
- a) Angiosperms b) Algae  
 c) Ferns d) Mushroom
64. Well-defined nucleus is absent in 1
- a) algae b) yeast  
 c) blue green algae d) diatoms
65. Which of the following is common among plants and animals? 1
- a) Both are prokaryotic b) Both are autotrophic  
 c) Both are eukaryotic d) Both are heterotrophic
66. While determining the density of the material of metallic sphere using a spring balance and measuring cylinder a student noted the following readings. 1
1. Mass of the sphere = 81g  
 2. i. Reading of water level in the cylinder without sphere = 54 mL  
 ii. Reading of water level in the cylinder with sphere = 63 mL  
 3. On the basis of these observations the density of the material of the sphere is :
- a)  $9000 \text{ kg m}^{-3}$  b)  $6000 \text{ kg m}^{-3}$   
 c)  $7000 \text{ kg m}^{-3}$  d)  $1500 \text{ kg m}^{-3}$
67. In vacuum all freely falling objects 1
- a) have the same acceleration b) have the same velocity  
 c) have the same speed d) have the same force
68. The mass of body is 10 kg at a place where  $g = 10 \text{ m/s}^2$ , its weight is 1
- a) 100 N b) 1000 N  
 c) 10 N d) 1 N
69. The least value of apparent weight of a body in a fluid is 1
- a) = 0 b) depends on the density of solid and fluid  
 c) < 0 d) > 0
70. Which of the statements is correct? 1
- a) Mass is constant and weight is variable b) Both Mass and weight are variable.  
 c) Mass is variable and weight is constant. d) Both Mass and weight are constant.
71. Two bodies, one held 1 m vertically above the other, are released simultaneously and fall freely under gravity. After 2 second, the relative separation of the bodies will be 1
- a) 4.9 m b) 19.6 m  
 c) 9.8 m d) 1 m
72. A heavier and a lighter body have equal momentum, then 1
- a) heavier will have more K.E. b) lighter will have more K.E.  
 c) they will have equal K.E. d) K.E. will be independent of momentum
73. While determining the density of a copper piece using a spring balance and a measuring cylinder, Seema carried out the following procedure. 1
- i. Noted the water level in the measuring cylinder without the copper piece.  
 ii. Immersed copper piece in water  
 iii. Noted the water level in the measuring cylinder  
 iv. Removed the copper piece from the water and immediately weighted it using a spring balance.  
 The wrong step in the procedure is :
- a) (iv) b) (ii)  
 c) (iii) d) (i)



74. A student noted down following observations in his note book.(1) Weight of the stone in air = 272 g wt(2) Weight of the stone in water = 192 g wt(3) Weight of the stone in salty water = 176 g wt.The relative density of the salty water must be : 1
- a)  $\frac{11}{12}$  b)  $\frac{13}{17}$   
 c)  $\frac{6}{5}$  d)  $\frac{11}{17}$
75. The ratio of weight to mass of the body is \_\_\_\_\_. 1
- a) zero b) 9.8  
 c) 1.0 d) 10
76. As the contact area between two objects increases the pressure \_\_\_\_\_ 1
- a) decreases b) remains constant  
 c) increases d) zero
77. The weight of an object at the center of the earth of radius R is 1
- a)  $\frac{1}{R^2}$  times the weight at surface of the earth b) zero  
 c) infinite d) R times the weight at the surface of the earth
78. The value of quantity G in the law of gravitation 1
- a) is independent of mass and radius of the earth b) depends on both mass and radius of the earth  
 c) depends on mass of the earth only d) depends on radius of the earth only
79. A girl stands on a box having 60 cm length, 40 cm breadth and 20 cm width in three ways. In which of the following cases, pressure exerted by the brick will be 1
- a) maximum when width and length from the base b) maximum when length and breadth from the base  
 c) maximum when breadth and width from the base d) the same in all the above three cases
80. A student lowers a body in a liquid filled in a container. He finds that there is a maximum apparent loss in weight of the body when: 1
- a) it is partially immersed and also touches the sides of the container. b) it is partially immersed in the liquid  
 c) it just touches the surface of the liquid d) it is completely immersed in the liquid

## Social Science

81. A war veterans' organisation was called:
- a) German Ruhr b) Gestapo  
 c) Free Corps d) Berlin Soldiers
82. The most infamous film made on Jews was:
- a) Schindler's List b) The Eternal Jew  
 c) Where Eagles Dare d) Jews the Undesirable
83. The term 'Genocidal' means:
- a) A kind of poison that Helmuth feared b) Suicide by the soldiers  
 c) Killing on a large-scale leading to the destruction of a large section of people d) Suicide by Hitler's officers
84. Nationalist Socialist German Workers' Party was renamed as:
- a) Nazi Party b) Communist Party  
 c) Workers' Party d) Socialist Party
85. The 'Secret State Police' was called:
- a) Security Service b) The Protection Squad  
 c) Gestapo d) Patriots

86. What is ITCZ ?
- a) Inter Tropical Converter Zone                      b) India Tropical Convergence Zone  
c) Inter Tropic Converge Zonal                      d) Inter Tropical Convergence Zone
87. What is the duration of cold weather season of India ?
- a) Mid November - February                      b) Mid January – February  
c) Mid October – February                      d) Mid December - January
88. The term ENSO is referred to:
- a) El Nino Southern Onset                      b) El Nino Southern Oscillations  
c) None of these                      d) El Nino Southern Oscillation
89. Which of the following are two coldest months in the northern part of India ?
- a) December, January                      b) March, April  
c) January, March                      d) April, May
90. Monsoons always blow from \_\_\_\_\_ regions.
- a) warm to very warm                      b) cold to warm  
c) warm to cold                      d) cold to very cold
91. Which of the following is not a climatic condition of the cold weather season of India ?
- a) Clear sky                      b) Low humidity  
c) High rainfall                      d) Low temperature
92. The periodic change in pressure conditions over the Pacific and Indian Ocean is referred as .....
- a) Western Oscillation                      b) Southern Oscillation  
c) Northern Oscillation                      d) Eastern Oscillation
93. Which winds prevail in India during rainy season ?
- a) East – West monsoon                      b) South – West monsoon  
c) Permanent winds                      d) North – West monsoon
94. Which of the following crops is benefited because of winter cyclonic disturbances ?
- a) None of these                      b) Rabi crops  
c) Kharif crops                      d) Zaid crops
95. Which of the following is not part of seasons of India ?
- a) The cold weather season                      b) The hot weather season  
c) The spring season                      d) The advancing monsoon season
96. Who appoints the Chief Election Commissioner of India ?
- a) The Council of Minister                      b) The President of India  
c) The Governor                      d) The Prime Minister of India
97. Which of the following statements about the reasons for conducting elections are false ?
- a) Elections enable people to judge the performance of the government.                      b) People select the representative of their choice in an election.  
c) People can indicate which policies they prefer.                      d) Elections enable people to evaluate the performance of judiciary.
98. 'Our Constitution makers thought of a special system of reserved constituencies. Which of the following is/are true with reference to this ?
- A. They were worried that in an open electoral system of reserved constituencies certain weaker sections may not stand a good chance to get elected to the Lok Sabha and the state Legislative Assemblies.  
B. The reservation was based on the economic development of the constituency.
- a) A is false but B is true                      b) A is true but B is false  
c) Both A and B are true                      d) Both A and B are false
99. Supporters or hired musclemen of party or a candidate gain physical control of a polling booth and cast false votes by threatening everyone or by preventing genuine voters from reaching the polling booth. Choose the appropriate word –
- a) Rigging                      b) Incumbent  
c) Booth Capturing                      d) Trunout
100. Which of the following party gave a slogan Nyaya yudh in 1987 ?
- a) BJP                      b) Lok Dal  
c) SP                      d) Indian National Congress

101. Who invites to the leader of the majority party to form the state government after the State Assembly elections ?
- a) Governor  
b) President  
c) Chief Minister  
d) Prime Minister
102. Which of the following is right expansion of the word MLA ?
- a) Member of Legislative Assembly  
b) Member of Legislative Assembly  
c) Member of Legal Assembly  
d) Minister of Legal Assembly
103. Read the statement and choose the appropriate word- Elections is held only for one Constituency to fill the vacancy caused by death or resignation by a member.
- a) Mid term elections  
b) By election  
c) General elections  
d) Assembly elections
104. When was the Constitution of India completed or adopted?
- a) 26 October, 1949  
b) 26 January, 1950  
c) 26 November, 1949  
d) 17 December, 1947
105. Which of these was the most salient underlying conflict in the making of a democratic constitution in South Africa?
- a) Between the white minority and the black majority  
b) Between the colored minority and the black majority  
c) Between men and women  
d) Between South Africa and its neighbors.
106. A form of government where people enjoy equal political rights is:
- a) Dictatorial  
b) Socialist  
c) Autocratic  
d) Democratic
107. How many members were there in the Constituent Assembly that wrote the Indian Constitution?
- a) 101 members  
b) 206 members  
c) 299 members  
d) 36 members
108. The Chairman of the drafting committee was:
- a) Dr. Rajendra Prasad  
b) Dr. B.R. Ambedkar  
c) Mahatma Gandhi  
d) Pt. Jawaharlal Nehru
109. Which of these is a provision that a democratic constitution does not have?
- a) Name of the head of the state  
b) Powers of the legislature  
c) Name of the country  
d) Powers of the head of the state
110. Nelson Mandela remained in prison for treason for about:
- a) 26 years  
b) 20 years  
c) 28 years  
d) 25 years
111. Quarrying and mining are included in the:
- a) Government sector  
b) Secondary sector  
c) Tertiary sector  
d) Primary sector
112. The full form of GNP is:
- a) Gross National Performance  
b) Green National Project  
c) Gross National Product  
d) Green Nation People
113. Which work, done mostly by woman, is not considered in the National Income?
- a) Household work  
b) Work done in a private company  
c) Teaching work in schools.  
d) Own business work.
114. When people appear to be employed, this kind of unemployment is called:
- a) Seasonal unemployment  
b) Disguised unemployment  
c) Educated unemployment  
d) All of these
115. Probability of certain communities of becoming or remaining poor in coming years is called.....
- a) Exclusion  
b) Vulnerability  
c) Inter state disparities  
d) Service
116. What is the situation called when there is surplus of manpower in certain categories and shortage of manpower in other categories.
- a) Non market activity  
b) Paradoxical manpower situation  
c) Market activity  
d) Seasonal unemployment

117. In the secondary sector which of the following is the most labour absorbing ?
- a) Mining
  - b) Quarrying
  - c) Trade
  - d) Small scale manufacturing
118. Which one of these is the most labour absorbing sector of the economy?
- a) Transportation
  - b) Agriculture
  - c) Service
  - d) Industries
119. When people appear to be employed but are actually not employed fully, this kind of unemployment is called:
- a) Disguised Unemployment
  - b) Educated unemployment
  - c) All of the above
  - d) Seasonal unemployment
120. 'SarvaShikshaAbhiyan' is a significant step towards providing education to all children in the age group:
- a) 6-14 years
  - b) 5-10 years
  - c) 10-15 years
  - d) 5-14 years
-

**Solution**  
**Class 09 - Mathematics**  
**Multiple Choice Examination (October-2019)**

**Section A**

1. (b) BC

Explanation:

Since the sum of all sides of a triangle is  $180^\circ$ .

So, angle  $C=70^\circ$ , angle  $B=30^\circ$ , angle  $A=80^\circ$ .

We have a theorem which states that the side opposite to the greatest angle is the longest.

So, the side opposite to angle A is the longest.

2. (d)

$$\triangle ABD \cong \triangle FEC$$

Explanation:

Given:

$$AB = FE, BC = ED,$$

$$AB \perp BE \text{ and } FE \perp BE$$

$$\text{To Prove: } AD = FC$$

Proof: In  $\triangle ABD$  and  $\triangle FEC$ ,

$$AB = FE \dots(1) \text{ (Given)}$$

$$\angle ABD = \angle FEC \dots(2)$$

$$\text{Each} = 90^\circ$$

$$BC = ED \text{ (Given)}$$

$$\Rightarrow BC + CD = ED + DC$$

$$\Rightarrow BD = EC \dots(3)$$

In view of (1), (2) and (3),

$\triangle ABD \cong \triangle FEC$  using SAS congruence rule

3. (a)

$$CA = RP$$

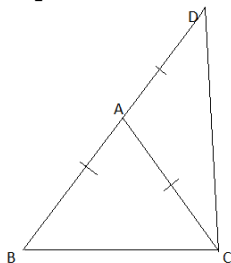
Explanation:

Corresponding sides are equal for two congruent triangles.

4. (b)

$$90^\circ$$

Explanation:



Given in  $\triangle ABC$ ,  $AB = AC$

$$\Rightarrow \angle ABC = \angle ACB \text{ (Since angles opposite to equal sides are equal)}$$

Also given that  $AD = AB$

$$\Rightarrow \angle ADC = \angle ACD \text{ (Since angles opposite to equal sides are equal)}$$

$$\therefore \angle ABC = \angle ACB = \angle ADC = \angle ACD = x \text{ (AB = AC = AD)}$$

$$\text{Also, } \angle BCD = \angle ACB + \angle ACD = x + x = 2x$$

$$\text{In } \triangle BCD, \angle CBD + \angle BCD + \angle BDC = 180^\circ$$

$$x + 2x + x = 180^\circ$$

$$4x = 180^\circ$$

$$x = 45^\circ$$

$$\angle BCD = 2x = 90^\circ$$

5. (b)  
RHS

Explanation:

In  $\triangle ABC$  and  $\triangle BAD$ , we have (Right angles)

$\angle BAC = \angle ABD$

$BC = AD$  (Hypotenuses and Given)

$AB = AB$  (common in both)

Hence,  $\triangle ABC \cong \triangle BAD$  by RHS criterion.

6. (c)  
16 cm

Explanation:

In triangles  $\triangle DNR$  and  $\triangle BMR$ ,

$$\angle N = \angle M = 90^\circ$$

$\angle NR D = \angle MR B$  (vertically opposite angles)

$BM = DN$  (Given)

Therefore,  $\triangle DNR$  and  $\triangle MRB$  are congruent

Therefore,  $BR = DR = 8$  cm

$BD = 16$  cm

7. (d)  
All are true

Explanation:

In  $\triangle AOB$  and  $\triangle DOC$

$\angle OAB = \angle ODC$  (alternate interior angles)

$\angle OBA = \angle OCD$

$OB = OC$  (given)

So, from ASA congruence, we have

$\triangle AOB \cong \triangle DOC$

Now, from CPCT, we have

$AB = CD$

$OA = OD$  which means  $O$  is the mid-point of  $AD$ .

Hence, all the given statements are true.

8. (c)  
PQ

Explanation:

In  $\triangle PQR$ ,  $\angle P = 60^\circ$ ,  $\angle Q = 50^\circ$

Now, by angle sum property,  $\angle P + \angle Q + \angle R = 180^\circ$

$$60^\circ + 50^\circ + \angle R = 180^\circ$$

$$\text{or, } \angle R = 180^\circ - 110^\circ = 70^\circ$$

So,  $\angle R$  is the largest angle and the side opposite to it, i.e,  $PQ$  will be the longest side.

9. (d)  
 $AB > AD$

Explanation:

Angle D = angle C (As AC = AD)  
 and angle C > angle B and angle D > angle B  
 hence AB > AD

10. (d) 13 cm

Explanation:

As per the rule in a triangle, sum of any 2 sides should be greater than the third side. So, the length of the third side should be 13, Since with 7,10 and 13 we have  
 $7+10>13, 7+13>10$  and  $13+10>7$

11. (d)

SAS

Explanation:

In  $\triangle DBC$  and  $\triangle AEF$ , we have

AB = FC (given) by adding BF on both sides

AF = CB

$\angle AFE = \angle CBD$  (given)

EF = BD (given)

Hence,  $\triangle AFE \cong \triangle CBD$  by SAS as the corresponding sides and their included angles are equal.

12. (d)

AC

Explanation:

Side opposite to smallest angle is shortest side angles of triangle are 35,60 and 85

13. (c)

$130^\circ$

Explanation:

Triangle ABC is an isosceles triangle and hence in the triangle other two angles are 50 and 50

Therefore,

$$X = 180 - 50 = 130$$

14. (d)

$55^\circ$

Explanation:

Since, It is given that AB = AC, then  $\angle B = \angle C$  (Isosceles triangle property)

Given  $\angle A = 70^\circ$ , Let angle B and C be  $x^\circ$

Sum of all the three angles of triangle =  $180^\circ$ , therefore  $\angle A + \angle B + \angle C = 180^\circ$

$$70 + x + x = 180$$

$$x = 55^\circ$$

$$\angle C = 55^\circ$$

15. (d)

AB

Explanation:

By angle sum property, we have,

$$\angle A + \angle B + \angle C = 180^\circ$$

$$\Rightarrow 50^\circ + 60^\circ + \angle C = 180^\circ$$

$$\Rightarrow \angle C = 180^\circ - (50^\circ + 60^\circ) = 70^\circ$$

Therefore,  $\angle C$  is the largest angle in the triangle and the side opposite to it i.e. AB is the longest side

16. (d)

DF is the longest side

Explanation:

In a triangle, only one right angle is possible, hence it is the greatest angle and the side opposite to it is the longest side. Here, the side opposite to  $\angle E$  is DF, hence, it is the longest side.

17. (b)  
110° and 110°

Explanation:

The two equal angles are 70 since angle C = 180 - 140 = 40 X = Y = 180 - 70 = 110

18. (c)  
Equilateral

Explanation:

Angle bisector is perpendicular to the opposite side only in equilateral triangle

19. (d)  
5.4 cm, 2.3 cm, 3.1 cm

Explanation:

In a triangle, the sum of any two sides must be greater than the third side and here 2.3 + 3.1 = 5.4 and hence, the triangle is not possible with the given measurements.

20. (b)  
8 cm

Explanation:

Using relation

$$\begin{aligned} \text{perimeter. } \triangle DEF &= \frac{1}{2} \text{perimeter. } \triangle ABC \\ &= \frac{1}{2} \times 16 = 8 \text{ cm} \end{aligned}$$

21. (b)  
Greater than AC

Explanation:

Sum of any two sides is greater than third side

22. (b)  
105°

Explanation:

Join AC. We get two isosceles triangles,  $\triangle ABC$  and  $\triangle ACD$

In  $\triangle ABC$ ,  $\angle ABC = 108^\circ$

$$\therefore \angle BAC = \angle BCA = (180^\circ - 108^\circ) / 2 = \frac{72^\circ}{2} = 36^\circ$$

In  $\triangle ACD$ ,  $\angle ADC = 42^\circ$

$$\therefore \angle DAC = \angle DCA = (180^\circ - 42^\circ) / 2 = 138^\circ / 2 = 69^\circ$$

$$\text{Now, } \angle BCD = \angle BCA + \angle DCA = 36^\circ + 69^\circ = 105^\circ$$

23. (b)  
SAS

Explanation:

According to SAS criterion, if the corresponding sides and their included angles are equal, then the triangles are congruent. Here, in  $\triangle AOC$  and  $\triangle XYZ$ ,  $AO = XY$ , and  $AC = XZ$  are the corresponding sides and  $\angle A = \angle X$  are included angles, Hence,  $\triangle AOC \cong \triangle XYZ$ , by SAS.



24. (c)  
 $50^\circ$

Explanation:

$$\angle ACD = 115^\circ, \angle ACB = 180 - 115 = 65^\circ \text{ (Linear Pair)}$$

Since, It is given that  $AB = AC$ , then  $\angle ABC = \angle ACB$  (Isosceles triangle property)

$$\text{As } \angle ACB = 65^\circ, \text{ therefore } \angle ABC = 65^\circ$$

Sum of all the three angles of triangle =  $180^\circ$ , therefore  $\angle ABC + \angle ACB + \angle A = 180^\circ$

$$\angle A = 180 - 65 - 65 = 50^\circ$$

25. (a)  
RHS

Explanation:

In  $\triangle ABD$  and  $\triangle ADC$ , we have,

$$\angle ADB = \angle ADC \text{ (Right angles)}$$

$$AB = AC \text{ ( Given and hypotenuses)}$$

$$AD = AD \text{ (common in both)}$$

Therefore,  $\triangle ABD \cong \triangle ADC$  by RHS.

26. (c)  
 $\angle B$  is the smallest angle in the triangle

Explanation:

In a triangle angle opposite to smallest side is least AC is least side and hence B is smaller

27. (b)  
 $240^\circ$

Explanation:

As triangle ABC is an equilateral triangle, therefore all the three angles are equal, that is,  $60^\circ$  each.

$$x = 180 - 60 = 120^\circ$$

$$y = 180 - 60 = 120^\circ$$

$$x + y = 120 + 120 = 240$$

28. (c)  
SSS

Explanation:

Given that two sides are equal and third side is common i.e AD hence all three corresponding sides are equal

29. (d)  
 $BC = QR$

Explanation:

If  $\triangle ABC \cong \triangle PQR$  by SSS congruence rule, then the corresponding sides must be equal i.e  $AB=PQ$ ,  $BC=QR$  and  $AC=PR$

30. (c)  
BC, AC

Explanation:

Smallest angle is A and greatest angle is B and hence sides opposite to these angles are BC and AC and they are shortest and longest respectively

31. (c)  
 $\angle BDA$

Explanation:

In triangle ABD and CBD

$AB = BC$  and  $\angle ABD = \angle CBD$  (Given)

BD (Common)

Therefore In triangle ABD and CBD are congruent by SAS criteria.

Therefore,  $\angle BDA = 30^\circ$  (by CPCT)

32. (a)  $PR > PQ$

Explanation:

then the hypotnuse should be always greater than the remaining two sides.

33. (a)

It is 1 : 1

Explanation:

In  $\triangle ABC$

$AB = AC$

$\therefore \angle ABC = \angle ACB$ (angles opposite to equal sides of a triangle are equal).....1

in  $\triangle DBC$ ,

$DB = DC$ ,

$\therefore \angle DBC = \angle DCB$ (angles opposite to equal sides of a triangle are equal).....2

subtract 2 from 1

$\angle ABC - \angle DBC = \angle ACB - \angle DCB$ (equals subtracted from equals gives equal)

$= \angle ABD = \angle ACD$

divide both the sides by  $\angle ACD$

$\Rightarrow \frac{\angle ABD}{\angle ACD} = 1$

$\therefore \angle ABD : \angle ACD = 1 : 1$

34. (b)

SSS

Explanation:

In  $\triangle ABC$  and  $\triangle ADC$ ,we have,

$AB = AD$  (4cm)

$BC = DC$  (2.7 cm)

$AC = AC$  (commom in both)

Hence , $\triangle ABC \cong \triangle ADC$ , by SSS criterion.

35. (c)

SAS

Explanation:

Two sides and included angle are equal and is SAS axiom

36. (b)

$OQ > OR$

Explanation:

Since  $PQ > PR$  then  $\angle R > \angle Q$  and hence their bisectors follow the same I.e  $\frac{R}{2} > \frac{Q}{2}$  and hence  $OQ > OR$

37. (d)

$AB + BC + AC > 2AD$

Explanation:

In triangle ADB

$AB + BD > AD$

In triangle ADC  
 $AC + DC > AD$   
 Adding both  
 $AB + AC + BD + DC > 2AD$   
 Now  $BD + DC = BC$   
 So,  $AB + AC + BC > 2AD$

38. (c)  
 $AC = PQ$

Explanation:

$\angle A$  is included between AB and AC and  $\angle P$  is included between PQ and PR and corresponding sides must be equal. Since  $AB = PR$ , hence  $AC = PQ$  for the given triangles to be congruent by SAS axiom.

39. (b)  
 $\angle BDA$

Explanation:

In Triangle CAB and triangle DBA,  
 $AC = BD$  and  $\angle CAB = \angle DBA$  (Given)  
 AB (Common)

Therefore, Triangle CAB and triangle DBA are congruent by SAS criteria

Therefore,  $\angle ACB = \angle BDA$  (by CPCT)

40. (b)  
 SAS

Explanation:

In  $\triangle ABD$  and  $\triangle ADC$ , we have

$AB = AC$  (Given)

$\angle BAD = \angle DAC$  ( Since AD, bisects  $\angle A$ )

$AD = AD$  ( common in both)

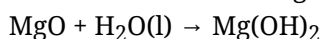
Hence,  $\triangle ABD \cong \triangle ACD$  by SAS

**Solution**  
**Class 09 - Science**  
**MCQ TEST**  
**Section A**

41. (b)  
It is basic

Explanation:

Magnesium oxide(MgO) is a base and not an acid. Magnesium is a metal and like most of the metals, it form basic oxides. When magnesium oxide reacts with water the following reaction takes place:



42. (c)  
None of these

Explanation:

Atoms of different elements may have same masses. E.g. Argon and Calcium.

Atoms of same element may have different masses as in the case of isotopes.

Atoms are made up of sub-atomic particles - electron, proton and neutron.

All the statements are correct.

43. (a)  
Both A and B

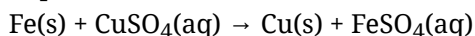
Explanation:

Atomic mass of an element is not its actual mass but relative mass compared to the mass of a carbon-12 atom.

Photographs of some atoms can be taken by using a STM (Scanning Tunneling Microscope). The scanning tunneling microscope (STM) is a type of electron microscope that shows three-dimensional images of a sample. In the STM, the structure of a surface is studied using a stylus that scans the surface at a fixed distance from it.

44. (a)  
the solution turns light green

Explanation:



When an iron nail is dipped in copper sulphate solution, a brown coating of copper is formed on the surface of iron and the colour of copper sulphate solution changes from blue to light green.

45. (b)  
Fe

Explanation:

Symbol "Fe" for Iron has been derived from the Latin word "Ferrum".

46. (a)  
acidic

Explanation:

Molecules whose Lewis structures indicate an atom to have an octet as a result of the formation of one or more multiple bonds will often function as Lewis acids. Examples are CO<sub>2</sub>, SO<sub>3</sub>, SO<sub>2</sub>.

SO<sub>3</sub> is acidic in nature as it is non-metallic oxide.

47. (d)

1:8 or 2:16

Explanation:

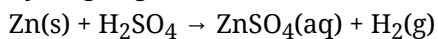
The atomic mass of Hydrogen is 1 u and that of Oxygen is 16 u. The formula of water is H<sub>2</sub>O. Hence, the ratio of Hydrogen and Oxygen by mass in water will be 2:16 or 1:8. The ratio will be the same irrespective of the source of the water.

48. (c)

Precipitate at the bottom of the tube

Explanation:

Zn reacts with dil. H<sub>2</sub>SO<sub>4</sub> to form ZnS. Zinc reacts with dil. H<sub>2</sub>SO<sub>4</sub> to form zinc sulphate and evolve hydrogen gas.



No precipitate is formed at the bottom.

This reaction is exothermic and hence heat is evolved in the reaction.

49. (d)

Calcium, Oxygen

Explanation:

The chemical formula of Quick lime is CaO. So, Calcium (Ca) and Oxygen (O) elements are present in Quick lime.

50. (c)

oxidising agent

Explanation:

SO<sub>3</sub> is sulphur trioxide. In this S is in +6 oxidation state which is its highest oxidation state. So it can not be further oxidized. So it acts as strong oxidizing agent and due to this SO<sub>3</sub> itself reduced and oxidise other compound.

51. (b)

Both Monoecious and Dioecious

Explanation:

Mosses can be either monoecious (both sexes on same plant body) or dioecious (both sexes on different plant bodies.)

52. (c)

Fungi

Explanation:

The mycelium is made up of filaments called hyphae found in fungi. A hyphae consists of one or more cells surrounded by a tubular cell wall. In most fungi, hyphae are divided into cells by internal cross-walls called "septa" (singular septum). Septa are usually perforated by pores large enough for ribosomes, mitochondria and sometimes nuclei to flow between cells.

53. (c) Protista

Explanation:

Amoeba and paramecium are the monerans with single celled body. They have very simple habit and habitat and all metabolic activities are performed within the cell with the help of water current.

54. (b)

Cnidarians that live in colonies

Explanation:

corals live in colony for many generations in their identical polyp phase and create a large skeleton of calcium carbonate. This is the characteristic feature of corals. They have formed coral reefs over millions of years in tropical ocean near equator.

55. (c)  
In a pond of stagnant dirty water

Explanation:

The filaments of spirogyra make a green tangled mat on the surface of ponds. Algae are generally found in stagnant water bodies like ponds.

56. (b)  
Arthropoda

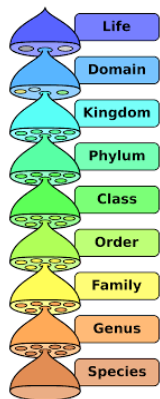
Explanation:

Phylum Arthropoda Arthr means 'jointed' and 'pod' means 'legs'. Thus, organisms belonging to phylum Arthropoda have jointed appendages. Arthropods can be distinguished from other kind of non-chordates because arthropods are the only animals with jointed appendages (legs and antennae).

57. (c)  
Species

Explanation:

Species is the lowest category of organisms. Every organism can be classified as 7 different levels- kingdom, phylum, class, order, family, genus, and species.



Each level contains organisms with similar characteristics. The kingdom is the largest group and very broad. Each successive group contains fewer organisms, but the organisms are more similar. The species is the smallest group and is very narrow. Organisms within a species are able to mate and produce fertile offspring.

58. (d) Wheat

Explanation:

Wheat has leaves with parallel venation which is a characteristic feature of monocots and it has leaf sheath which covers the stem.

59. (d)  
Pileus and gills

Explanation:

Inverted umbrella is known as pileus and the slits on the inverted side is known as gills.

60. (b)  
flowers

Explanation:

Pteridophytes are the ancient plants which bear spores and reproduce with the help of wind. They do not bear flowers as flowers are needed to perform sexual reproduction which is not a characteristic of pteridophytes.

61. (d) Gymnosperms

Explanation:

Gymnosperms are the just primitive to angiosperms and these are non flowering plants. They reproduce by forming male and female cones as their reproductive organs.

62. (c) Angiosperms

Explanation:

Angiosperms are seed bearing plants and they bear two types of seeds. Seeds having single cotyledon- monocots, seeds having two cotyledons- dicots.

63. (d)

Mushroom

Explanation:

Mushroom is a member of kingdom fungi and it feeds on dead and decaying organic matter.

24. (c)

blue green algae

Explanation:

Blue green algae is a category of bacteria which can perform photosynthesis and is a prokaryotic organism. It's called cyanobacteria and belongs to the phylum monera. It does not have a well defined nucleus, It has a nucleoid.

65. (c)

Both are eukaryotic

Explanation:

Both plants and animals have well defined nucleus and cell organelles i.e. both are eukaryotic.

66. (a)

$9000 \text{ kg m}^{-3}$

Explanation:

$$\text{Density} = \frac{\text{Mass}}{\text{volume}} = \frac{81}{63-54} = \frac{81}{9} = 9 \text{ g/cm}^3$$
$$= 9000 \text{ kg m}^{-3}$$

67. (a) have the same acceleration

Explanation:

Air is absent in vacuum so no change will take place in acceleration to a freely falling body irrespective of their nature or mass

68. (a)

100 N

Explanation:

$$\text{Weight} = Mg = 10 \times 10 = 100 \text{ N}$$

69. (a)

= 0

Explanation:

When a body floats in a liquid, upthrust acting on the body is equal to the weight of the body in accordance to the law of flotation. That is, the weight of the body is balanced by the upthrust. So, the apparent weight of the body is zero as the net force acting on the body is zero.

70. (a)

Mass is constant and weight is variable

Explanation:

Mass is an independent quantity but weight is dependent on gravity. As the gravity changes, weight also change.

71. (d)  
1 m

Explanation:

Relative positions remain constant irrespective of the distance travelled and time taken during free fall.

72. (b)  
lighter will have more K.E.

Explanation:

lighter body will have more K.E because kinetic energy is inversely proportional to the mass of body.

73. (a)  
(iv)

Explanation:

Water drops left out will show more weight.

74. (c)  
 $\frac{6}{5}$

Explanation:

$$\text{Relative density of salty water} = \frac{\text{loss of weight in salty water}}{\text{loss of weight in water}} = \frac{272-176}{272-192} = \frac{96}{80} = \frac{6}{5}$$

35. (b) 9.8

Explanation:

$$W = m \times g = m \times 9.8$$

$$\frac{W}{m} = 9.8$$

76. (a) decreases

Explanation:

In the case of contact forces between two objects as the area of contact between the two increases the pressure per square unit of measure will decrease.

77. (b) zero

Explanation:

The weight of the object is zero

Because weight = mg

And  $r = 0$  so  $g = \text{zero}$  at the center of earth

Then  $w = \text{zero}$

78. (a) is independent of mass and radius of the earth

Explanation:

The value of  $g$  is independent of the mass of the object and only dependent upon location - the planet the object is on and the distance from the center of that planet.

79. (c) maximum when breadth and width from the base

Explanation:

Now, according to question, when base is formed by breadth and width. Area will be minimum. And so, pressure will be maximum.

80. (d)  
it is completely immersed in the liquid

Explanation:



When a solid is completely immersed in the liquid, there is maximum apparent loss in its weight due to maximum volume of liquid displaced.

**Solution**  
**Class 09 - Social Science**  
**Multiple Choice Examination (October-2019)**

**Section A**

81. (c) Free Corps  
Explanation:  
The Weimar Republic crushed the uprising with the help of a war veterans organisation called Free Corps.
82. (b) The Eternal Jew  
Explanation:  
The most infamous film was The Eternal Jew. Orthodox Jews were stereotyped and marked.
83. (c) Killing on a large-scale leading to the destruction of a large section of people  
Explanation:  
Under the shadow of the Second World War, Germany had waged a genocidal war, which resulted in the mass murder of selected groups of innocent civilians of Europe.
84. (a) Nazi Party  
Explanation:  
Hitler subsequently took over the organisation and renamed it the National Socialist German Workers' Party. This party came to be known as the Nazi Party.
85. (c) Gestapo  
Explanation:  
Apart from the already existing regular police there was the secret state police called Gestapo
86. (d) Inter Tropical Convergence Zone  
Explanation:  
ITCZ stands for Inter Tropical Convergence Zone. The Inter Tropical Convergence Zone (ITCZ) is a broad trough of low pressure in equatorial latitudes. This is where the northeast and the southeast trade winds converge.
87. (a) Mid November - February  
Explanation:  
The cold weather season begins from mid-November in northern India and stays till February. December and January are the coldest months in the northern part of India
88. (d) El Nino Southern Oscillation  
Explanation:  
The changes in pressure conditions are connected to the El Nino. Hence, the phenomenon is referred to as ENSO (El Nino Southern Oscillations).
89. (a) December, January  
Explanation:  
The cold weather season begins from mid-November in northern India and stays till February. December and January are the coldest months in the northern part of India.
90. (b)  
cold to warm  
  
Explanation:  
A monsoon is a seasonal change in the direction of the prevailing, or strongest, winds of a region. Monsoons are most often associated with the Indian Ocean. Cold winds from high pressure areas blow to the low pressure areas over the oceans in the south which are warm. Thus Monsoons always blow from cold to warm regions.

91. (c) High rainfall  
Explanation:  
The cold weather is normally marked by clear sky, low temperatures and low humidity and feeble, variable winds.
92. (b) Southern Oscillation  
Explanation:  
Normally when the tropical eastern south Pacific Ocean experiences high pressure, the tropical eastern Indian Ocean experiences low pressure. But in certain years, there is a reversal in the pressure conditions and the eastern Pacific has lower pressure in comparison to the eastern Indian Ocean. This periodic change in pressure conditions is known as the Southern Oscillation or SO .
93. (b) South – West monsoon  
Explanation:  
By early June, the low-pressure condition over the northern plains intensifies. It attracts the trade winds of the southern hemisphere. These south-east trade winds originate over the warm subtropical areas of the southern oceans. They cross the equator and blow in a south-westerly direction entering the Indian peninsula as the south-west monsoon.
94. (b) Rabi crops  
Explanation:  
The low-pressure systems, originate over the Mediterranean Sea and western Asia and move into India, along with the westerly flow. They cause the much-needed winter rains over the plains and snowfall in the mountains. Although the total amount of winter rainfall locally known as ‘mahawat’ is small, they are of immense importance for the cultivation of ‘rabi’ crops.
95. (c) The spring season  
Explanation:  
Four main seasons can be identified in India – the cold weather season, the hot weather season, the advancing monsoon and the retreating monsoon with some regional variations.
96. (b) The President of India  
Explanation:  
The Chief Election Commissioner (CEC) is appointed by the President of India. But once appointed, the Chief Election Commissioner is not answerable to the President or the government
97. (d) Elections enable people to evaluate the performance of judiciary.  
Explanation:  
Elections enable people to evaluate the performance of the **government**.
98. (b) A is true but B is false  
Explanation:  
In our country we follow an area based system of representation. The country is divided into different areas for purposes of elections. These areas are called electoral constituencies. Hence A is true but B is false
99. (c) Booth Capturing  
Explanation:  
Booth capturing: Supporters or hired musclemen of party or a candidate gain physical control of a polling booth and cast false votes by threatening everyone or by preventing genuine voters from reaching the polling booth.
100. (b) Lok Dal  
Explanation:  
The State had been ruled by a Congress party led government since 1982. Chaudhary Devi Lal, then an opposition leader, led a movement called ‘Nyaya Yudh’ (Struggle for Justice) and formed a new party, Lok Dal.
101. (a)  
Governor  
Explanation:

After the State Assembly elections Governor invites to the leader of the majority party to form the state government

102. (a) Member of Legislative Assembly

Explanation:

MLA stands for Member of Legislative Assembly

103. (b)

By election

Explanation:

Sometimes election is held only for one constituency to fill the vacancy caused by death or resignation of a member. This is called a by-election.

104. (c) 26 November, 1949

Explanation:

The Assembly adopted the Constitution on 26 November 1949 but it came into effect on 26 January 1950.

105. (b)

Between the colored minority and the black majority

Explanation:

South Africa's constitution is often regarded as a model for democratic constitution making, embodying both the benefits and challenges of participation. The most salient underlying conflict in the making of a democratic constitution in South Africa was between the colored minority and the black majority

106. (d)

Democratic

Explanation:

Democratic

107 (c) 299 members

Explanation:

The Assembly adopted the Constitution on 26 November 1949 but it came into effect on 26 January 1950. The Constituent Assembly that wrote the Indian constitution had 299 members

108. (b) Dr. B.R. Ambedkar

Explanation:

A Drafting Committee chaired by Dr. B.R. Ambedkar prepared a draft constitution for discussion.

109 (a) Name of the head of the state

Explanation:

Name of the head of the state is not included in the constitution which is democratic

110. (c) 28 years

Explanation:

Nelson Mandelaspent the next 28 years in South Africa's most dreaded prison, Robben Island.

111. (d)

Primary sector

Explanation:

Quarrying and mining are included in the primary sector.

112. (c) Gross National Product

Explanation:

Full form of GNP is Gross National Product. Gross national product is the market value of all the products and services produced in one year by labor and property supplied by the citizens of a country.

113. (a)

Household work

Explanation:

Women are not paid for the services or household work delivered in the family. So, household work is not considered in the National Income.

114. (b) Disguised unemployment

Explanation:

In this situation more people are engaged in work than required. They all appear to be employed. It is also called Hidden unemployment.

115. (b)

Vulnerability

Explanation:

Probability of certain communities of becoming or remaining poor in coming years is called Vulnerability to poverty.

116. (b)

Paradoxical manpower situation

117. (d)

Small scale manufacturing

Explanation:

Small scale manufacturing is the most labour absorbing sector of the secondary sector.

118. (b) Agriculture

Explanation:

Agriculture is the most labor absorbing sector of the economy.

119. (a)

Disguised Unemployment

Explanation:

When people appear to be employed but are actually not employed fully, this kind of unemployment is called **disguised unemployment**.

120. (a) 6-14 years

Explanation:

It aims to provide compulsory and free elementary education to all children between the age 6-14 years.