ATOMIC ENERGY CENTRAL SCHOOL No. 4 (RAWATBHATA)

Multiple Choice Question (MCQ) Test

Month - NOVEMBER & DECEMBER (2018-19)

Class : IX

1 A triangle and a parallelogram are on the same base and between the same parallel. The ratio of their areas is

A) 1:2 B) 1:1 C) 2:1 D) 1:3

2 In a ΔABC D, E, F are the mid-points of sides BC, CA and AB respectively. If ar(ΔABC) = 16cm^2 then area of trapezium FBCE is

A) 4cm^2 B) 8cm^2 C) 12cm^2 D) 10cm^2

3 The area of the figure formed by joining the mid-points of the adjacent sides of a rhombus with diagonals 16cm and 12cm is

A) 28cm^2 B) 48cm^2 C) 96cm^2 D) 24cm^2

4 Medians of triangle ABC intersect at G. If area of triangle ABC is 27cm^2 , then area of triangle BGC is

A) 6cm^2 B) 9cm^2 C) 12cm^2 D) 18cm^2

5 Diagonals AC and BD of trapezium ABCD , in which AB || DC, intersect each other atO . The triangle which is equal in area of triangle AOD is

A) Triangle AOB B) Triangle BOC C) Triangle DOC D) Triangle ADC

6 ABCD is a trapezium in which AB || CD. If area of triangle ABC = 24cm^2 and AB = 8cm, then height of triangle ABC is

A) 3cm B) 4cm C) 6cm D) 8cm

7 ABCD is a rectangle with o as any point in its interior. If ar(AOD) = 3cm^2 and ar(BOC) = 6cm^2,then area of rectangle ABCD is

A) 9cm^2 B) 12cm^2 C) 15cm^2 D) 18cm^2

8 ABCD is a trapezium with parallel sides AB = a and DC = b. If E and F are mid-points of non – parallel sides AD and BC respectively, then the ratio of areas of quadrilaterals ABFE and EFCD is

A) a:b B) (a+3b) :(3a+b) C) (3a+b):(a+3b) D) (2a+b): (3a+b)

9 If the length of a chord of a circle is 16cm and is at a distance of 15cm from the centre of the circle , then the radius of the circle is

A) 15cm B) 16cm C) 17cm D) 34cm

10 If O is the centre of a circle of radius r and AB is a chord of a circle at a distance r/2 from O $then$ < BAO =

A) 60^o B) 45^o C) 30^o D) 15^o

11 ABC is a triangle with B as right angle, AC= 5cm and AB = 4cm, A circle is drawn with A as centre and AC as radius. The length of the chord of this circle passing through C and B is

A) 3cm B) 4cm C) 5cm D) 6cm

12 An equilateral triangle ABC is inscribed in a circle with centre O. The measures of angle BOC is

A) 30^o B) 60^o C) 90^o D) 120^o

13 If two diameters of a circle intersect each other at right angles, then quadrilateral formed by joining their end points is a

A) rhombus B) rectangle C) parallelogram D) square

14 The chord of a circle is equal to its radius. The angle subtended by this chord at the minor arc of the

circle is

A) 60^o B) 75^o C) 120^o D) 150^o

15 PQRS is a cyclic quadrilateral such that PR is a diameter of the circle. If angle QPR = 67^o and angle SPR = 72^o, then angle QRS =

A) 41^o B) 23^o C) 67^o D) 18^o

16 The greatest chord of a circle is called its

A) radius B) secant C) diameter D) tangent

17 Angle formed in a minor segment of a circle is

A) acute B) obtuse C) Right angle D) Reflex angle

18 If ABC is an arc of a circle and angle ABC = 135^O, Then the ratio of arc ABC to the circumference is

A) 1:4 B) 3:4 C) 3:8 D) 1:2

19 In a circle of radius 17cm, two parallel chords are drawn on opposite side of a diameter, The distance between the chords is 23cm. If the length of one chord is 16cm, then the length of the other is

A) 34cm B) 15cm C) 23cm D) 30cm

20 Number of circles that can be drawn through 3 non-collinear points is

A) 1 B) 0 C) 2 D) 3

21 A car is accelerated on a levelled road and attains a velocity of 4 times of its initial velocity. In this process the potential energy of car

(A) does not change (B) Becomes twice that of initial (C) Remain constant (D) Becomes 16 times that of initial

22 In case of negative work the angle between the force and displacement is

(A) 0° (B) 45º (C) 90º (D) 180º

23 Which one of the following is not a unit of energy

(A) Joule (B) Nm (C) kW (D) kWh

24 The weight of a person on a planet A is about half that on the earth. He can jump upto 0.4 m height on the surface of the earth. How high he can jump on the planet A

(A) 0.6 m (B) 0.8 m (C) 1.2 m (D) none

25 What happens to the kinetic energy if the momentum of a body is doubled

(A) Remain same (B) Becomes twice (C) Becomes 4 times (D) none

26 A girl having mass of 35 kg sits on a trolley of mass 5 kg, the trolley is given an initial velocity of 4 m/s by applying a force, the trolley comes to rest after travelling a distance of 16 cm. How much work is done on the trolley

(A) 320 J (B) 300 J (C) 360 J (D) none

27 Which of the following correctly represents the electronic configuration of Mg atom

A) 3,8,1 B) 2,8,2 C) 1,8,3 D) 8,2,2

28 Rutherford's alpha scattering experiment resulted in the discovery of

A) electron B) proton C) neutron D) nucleus

29 The ion of an element has 3 positive charges. Mass number of atom is 27 and the number of

neutrons is 14. What is the number of electrons in the ion?

A) 10 B) 13 C) 14 D) 15

30 Elements with valency 1 are

A) Always metals B) Always non-metals C) Always metalloids D) Either metals or non metals

31 The first model of an atom was given by

A) Neils Bohr B) J.J.Thomson C) Rutherford D) E Goldstein

32 e/m ratio of an electron is about …….times that of proton.

A) 2000 B) 1000 C) 200 D) 100

33 The number of electrons in L shell of phosphorus is not equal to that in the

A) L shell of Neon B) M shell of potassium C) M shell of chromium D) M shell of argon

34 Which of the following is not caused by virus?

A) Measles B) Polio C) Whooping cough D) Rabies

35 Which of the following is not an infectious disease?

A) AIDS B) Arthritis C) Typhoid D) Malaria

36 BCG is used against

A) Typhoid B) Rabies C) Tuberculosis D) Hepatitis

37 'Germ theory of diseases' was proposed by

A) Edward Jenner B) Robert Koch C) Ronald Ross D) Alexander Flemming

38 Select a vector borne disease ;

A) Dengue B) Chicken pox C) Tuberculosis D) Syphilis

39 One of the following is a deficiency disease

A) Diabetes mellitus B) Arthritis C) Hay fever D) Plague

40 A vaccine mimics

A) Antibody B) Antigen C) Interferons D) Histamine

41 Germany fought the first world war against ……

A) England B) France C) Russia D) All the above

42 When was the Enabling Act passed in Germany?

A) On 12th March 1933 B) On 3rd March 1933 C) On 3rd March 1903 D) On 14th March 1932

43 On 30 January 1933 who offered the Chancellorship to Hitler ?

A) Soviet Red Army B) King Kaiser William II C) President Hindenburg D) Hjalmar Schacht

44 Who was Hjalmar Schacht?

A) Economist B) Chancellor C) German Soldier D) None of the above

45 When did the Second World War end?

A) 11th June 1945 B) 9th May 1945 C) 9th May 1944 D) 9th June 1945

46 Who were considered as inferior and undesirable by Nazi Germany?

	A) Jews	B)	Gypsies and blacks	C)	Russians and Poles	D)	All the above

47 Our country India is one of the twelve …….. countries of the world.

	A) Densely populated	B)	Economically developed	C)	Mega bio-diversity	D)	None of the above

48 India stands on …….. Place in the world in plant diversity.

	A) Fifth	B)	Fourth	C)	Sixth	D)	Tenth

49 A large Ecosystem on the land having distinct type of vegetation and animal life is called …….. .

	A) Fauna	B)	A bio-reserve	C)	Biosphere	D)	Biome

50 When was the Wild Life Protection Act implemented in India?

	A) In1968	B)	In 1966	C)	In 1972	D)	In 1979

51 How many biosphere reserves have been set up in the country to protect flora and fauna?

	A) Fifteen	B)	Sixteen	C)	Seventeen	D)	Fourteen

52 When was the programme of Biosphere Reserve initiated by UNESCO?

	A) In 1976	B)	In 1975	C)	In 1971	D)	In 1977

53 Where is Jim Corbett National Park located in India?

	A) Madhya Pradesh	B)	Uttarakhand	C)	Haryana	D)	Himachal Pradesh

54 Which was the most devastating famine that occurred in India in 1943?

	A) The famine of Bengal	B)	The famine of Punjab	C)	The famine of Tamil Nadu	D)	The famine of Andhra Pradesh

55 What does FCI stands for ?

	A) Fare Corporation of India	B)	Food Commission of India	C)	Food Company of India	D)	Food Corporation of India

56 Which revolution was adopted in July 1968?

	A) Food security Revolution	B)	Wheat Revolution	C)	Green Revolution	D)	Agricultural Revolution

57 Which of them is not the kind or ration cards?

	A) Antyodaya	B)	BPL	C)	ADS	D)	APL

58 When was the Food Corporation Act passed?

	A) 1962	B)	1964	C)	1968	D)	1960

59 When was Notional Food for Work Programme launched?

	A) On November 11, 2006	B)	On April 24, 2006	C)	On November 14, 2004	D)	On April 19, 2004

60 Why do poor people suffer from chronic hunger

	A) Very low income	B)	Unavailability of Food	C)	High price of food	D)	None of the above

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Answer Key

1 A	2 C	3 B	4 B	5 B	6 C	7 D	8 C	9 C	10 C
11 D	12 D	13 D	14 D	15 A	16 C	17 B	18 A	19 D	20 A
21	22	23	24	25	26	27	28	29	30
A	D	C	B	C	A	B	D	A	D
31	32	33	34	35	36	37	38	39	40
B	A	C	C	B	C	B	A	A	B
41	42	43	44	45	46	47	48	49	50
D	B	C	A	B	D	C	D	D	C
51	52	53	54	55	56	57	58	59	60
D	C	B	A	D	B	C	B	A	A