MULTIPLE CHOICE QUESTION EXAMINATION - 5 (30.11.2023)

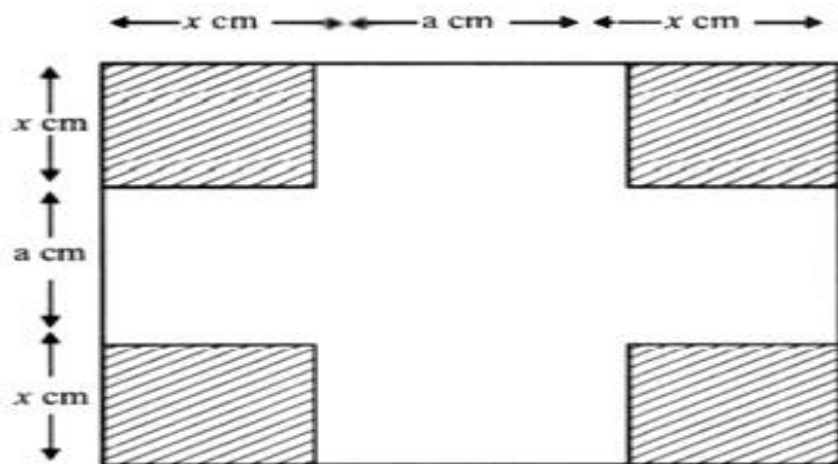Time Allowed : 3 hours   CLASS : VIII   Maximum Marks : 120

	Attempt all questions	
1	(0.5% of 250) + (0.8% of 120) = **?** a) 2.42 b) 1.85 c) 2.21 d) 1.92	
2	If Shilpa had Rs 600 left after spending 75% of her money, how much did she have in the beginning? a) Rs 2,700 b) Rs 2,400 c) Rs 2,000 d) None of these	
3	Shyama purchases a scooter costing Rs 36,450 and the rate of sales tax is 9%, then the total amount paid by her is a) Rs 36,490.50 b) Rs 39,730.50 c) Rs 33,169.50 d) Rs 36,454.50	
4	The sides of a triangle are in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ and its perimeter is 104 cm. The length of the longest side is a) 52 cm b) 26 cm c) 32cm d) 48 cm	
5	Find C.I.on Rs 20,000 for3 years at 20% per annum compounded annually. a) Rs 14,000 b) Rs 15,000 c) Rs 14,560 d) None of these	
6	An item marked at Rs 840 is sold for Rs 714. What is the discount amount? a) Rs 140 b) Rs 136 c) Rs 126 d) None of these	
7	An amount becomes ₹ 16900 in 2 years and ₹ 17576 in 3 years on compounded interest. Find out the annual rate of interest? a) 5% b) 6% c) 10% d) 4%	
8	Lakshmibuys an article with 25% discount on the marked price. She makes a profit of 10% by selling it at ₹ 660. What was the marked price? a) ₹ 800 b) ₹ 700 c) ₹ 600 d) ₹ 900	
9	Ratio of 250 ml to 2 L is	

	a) 25 : 200 b) 1 : 8 c) 8 : 1 d) 2 : 1
10	The difference of the compound interest and the simple interest on ₹ 50000 at 4% annually for 2 yr will be a) ₹ 160 b) ₹ 80 c) ₹ 40 d) ₹ 50
11	The sum of two binomials is $5x^2 - 6x$. If one of the binomial is $3x^2 - 2x$. What is the other binomial? a) $8x^2 - 8x$ b) $2x^2 - 4x$ c) $8x^2 - 4x$ d) $2x^2 - 8x$
12	The factorised form of $3x - 24$ is a) $3x \times 24$ b) $3(x - 8)$ c) $3(x - 12)$ d) $24(x - 3)$
13	Find the product of: $\left(\frac{2}{5}x^2y^2z^5\right)\left(-\frac{15}{8}x^5y^3z^3\right)\left(\sqrt{3}x^7y^2z^3\right)$ a) $3\sqrt{3}x^{14}y^7z^{10}$ b) $\frac{-3\sqrt{3}}{4}x^{14}y^7z^{11}$ c) $4\sqrt{2}x^0y^0z^{18}$ d) $\frac{3\sqrt{3}}{7}x^5y^6z^2$
14	The product of $x^2 , - x^3 , - x^4$ is a) x^5 b) x^9 c) x^7 d) x^6
15	Subtract: $3x (x - 4y + 5z)$ from $4x (2x - 3y + 10z)$ a) 35 b) $5x^2 + 25xz$ c) $5x^2 + 25$ d) $5x^2$
16	If we subtract $- 3x^2 y^2$ from $x^2 y^2$,then we get a) $- 2x^2 y^2$ b) $4x^2 y^2$ c) $- 4x^2y^2$ d) $2x^2 y^2$
17	The formula for the area, A sq cm of the white cross is

a) $A = 2ax + 4ay + a^2$ b) $A = 4ax + 4ay + a^2$

c) $A = 2ax + 2ay + a^2$ d) $A = 4ax + a^2$

18	How much should $3xy - 4a^2 + 5b^2 + 2$ be increased to get $-5 + 4a^2 + 2b^2 - 7xy$?

a) $8a^2 - 3b^2 - 10xy - 7$ b) $18a^2 - 3b^2 + 10xy$

c) $8a^2 + 3b^2 - 11xy + 10$ d) $9a^2 - 3b^2 - 11xy - 7$

19	The area of a rectangle with length $2l^2$ m and breadth $3lm^2$ is.

a) $4l^3$ m^3 b) $6l^3$ m^3 c) $2l^3$ m^3 d) l^3 m^3

20	$a(b + c) = ab + ac$ is

a) Commutative property   b) Closure property

c) Associative property   d) Distributive property

21	The dimensions of an iron box are 9 ft× 4.4 ft × 7.2 ft. What is the cost of the iron sheet used to make the box, if the cost of the sheet isRs 0.90 per square foot?

a) Rs 344.94   b) Rs 444.94   c) Rs. 244.94   d) Rs 644.94

22	The ratio of radii of two cylinders is 1 : 2 and heights are in the ratio 2: 3. The ratio of their volumes is

a) 1 : 2   b) 1 : 9   c) 1 : 3   d) 1 : 6

23	If the volumes of two cubes are in the ratio 8 : 1, then ratio of their edges is

	a) 4 : 1	b) 2 : 1	c) 8 : 1	d) $2\sqrt{2}$: 1

24 The cost of painting the whole surface area of a cube at the rate of 13 paise per cm² is ₹ 343.98. Then, the volume of the cube is

a) 8000 cm³   b) 10.648 cm³   c) 9.261 cm³   d) 6859 cm³

25 A covered wooden box has the inner measures as 115 cm, 75 cm and 35 cm and thickness of wood at 2.5 cm. The volume of the wood is

a) 80000 cm³   b) 85000 cm³   c) 82125 cm³   d) 84000 cm³

26 The volume of a metallic cylindrical pipe is 748 cm³ . Its length is 14 cm and its external radius is 9 cm. Then, its thickness is

a) 1.5 cm   b) 1 cm   c) 2.5 cm   d) 2 cm

27 Find what length of canvas 12 meters in width is required to make a conical tent 12 metersin diameter and 6.3 meters in slant height.

a) 9.9 m   b) 7.7 m   c) 6.6 m   d) 8.8 m

28 A cube of side 4 cm is cut into 1 cm cubes. What is the ratio of the surface areas of the original cube and cut - out cubes?

a) 1 : 4   b) 1 : 6   c) 1 : 2   d) 1 : 3

29 Find the number of coins 1.5 cm in diameter and 0.2 cm thick melted from a right circular cylinder whose height is 8 cm and diameter 6 cm.

a) 680   b) 640   c) 620   d) 660

30 The length of the longest rod that can be fit in a cubical room of 4 cm side is:

a) 5.196 m   b) 8.66 m   c) 7.264 m   d) 6.928 m

31 On dividing $p(4p^2 - 16)$ by $4p(p - 2)$, we get

a) p - 2   b) p + 2   c) 2p + 4   d) 2p - 4

32 Simplified from of $\dfrac{(-6a^3b^5)(2a^2b^3)}{-18a^4b^8c^3}$

a) $\dfrac{2a}{3c^3}$

b) $\dfrac{-2a^2b}{3c^3}$

c) $\dfrac{2a^2b}{3bc^3}$

d) $\dfrac{-2ab}{3c^3}$

33	Divide as directed: $(y^2 + 7y + 10) \div (y + 5)$	
	a) $(y - 2)$ b) $(y + 2)$ c) $(y + 4)$ d) $(y + 3)$	

34 $x^9 - x$ is having

a) 4 factors   b) 5 factors   c) 2 factors   d) 3 factors

35 Factorised form of $p^2 - 17p - 38$ is

a) $(p + 19)(p - 2)$ b) $(p - 19)(p + 2)$

c) $(p + 19)(p + 2)$ d) $(p - 19)(p - 2)$

36 Factorise: $a(b - c) - d(b - c)$

a) $(a - d)$ b) $(a - d)(b - c)$ c) $(b - c)$ d) None of these

37 Divide the given polynomial by the given monomial: $(5x^2 - 6x) \div 3x$

a) $\dfrac{1}{3}$ b) $\dfrac{1}{3}(5x - 6)$ c) $(5x - 6)$ d) None of these

38 Calculate: $(28)^3 + (-15)^3 + (-13)^3$

a) 16308   b) 116830   c) 16830   d) 16380

39 What are the roots of the equation $x^2 - x - 6 = 0$?

a) $\left(2, \dfrac{1}{2}\right)$ b) $(-2, 3)$ c) $\left(0, \dfrac{1}{2}\right)$ d) $\left(\dfrac{1}{2}, 1\right)$

40 Factorise: $x^2 + 8x + 16$

a) $(x + 4)^2$ b) $(x + 2)^2$ c) $(x + 3)^2$ d) $(x + 5)^2$

41 The CGS unit of force is

a) Pascal   b) Dyne   c) Watt   d) Joule

42 Objects can be set into motion due to the

	a) Action of gravity	b) Action of weight
	c) Action of pressure	d) Action of force

43	The bottom of dam is made thick due to
	a) the water exerts low pressure on bottom wall
	b) it is a custom
	c) it looks beautiful
	d) the water exerts more pressure on bottom wall

44	The speed of a falling body increases continuously. This is because
	a) the earth attracts it
	b) it is very light
	c) the air exerts a frictional force on it
	d) no force acts on it

45	Ball bearings are used in bicycles, cars, etc. because
	a) the effective area of contact between the wheel and axle is reduced
	b) the effective area of contact between the wheel and axle is increased
	c) None of these
	d) the actual area of contact between the wheel and axle is increased

46	What will be the pressure when 30 N force is applied on 120 cm² area?
	a) 2.5×10^{2} N/m^{2} b) 5×10^{4} N/m^{2}
	c) 2.5×10^{3} N/m^{2} d) 5×10^{3} N/m^{2}

47	Kicking a ball with our legs is an example of force of
	a) gravitation b) muscular c) friction d) magnetic

48	Two boys exert force of 40 N and 60 N in opposite direction on an object. The resultant force is
	a) 20 N b) 100 N c) 40 N d) 240 N

49	Sliding is replaced in most machines by	
	a) Use of ball bearings b) Using graphite	
	c) Using powder d) Using lubricants	
50	Consider a porter standing on a platform with a suitcase which presses his head with a force of 300 N. The reaction forces is exerted by	
	a) the head on the suitcase b) the earth on the suitcase	
	c) the earth on the porter d) the suitcase on the earth	
51	The food can be cooked easily in pressure cooker, because -	
	a) Boiling happens at higher temperature	
	b) Pressure remains constant	
	c) Pressure change constantly	
	d) Boiling happens at lower temperature	
52	Liquid pressure increases with	
	a) Increase with atmospheric pressure	
	b) Decrease with air pressure	
	c) Increase in depth	
	d) Decrease in depth	
53	The force depends on	
	a) Pressure and mass	
	b) Density and acceleration	
	c) Mass and acceleration	
	d) Weight and acceleration	
54	Which of the following effect is not produced by force?	
	a) Change in direction	
	b) Change in shape	

	c) Change in speed	
	d) Change in mass	
55	Sometimes, car skids in rainy season because	
	a) water reduces the friction between the road and the tyres	
	b) water increases the friction between the road and the tyres	
	c) it is not possible to apply brakes on a wet road	
	d) the friction between the brake shoes and the wheels is reduced	
56	Which force is responsible for the stability of our universe?	
	a) Magnetic force of earth	
	b) Frictional force between planets and atmosphere	
	c) The force of gravitation	
	d) Magnetic force of Sun	
57	A coin flicked across a table stops because	
	a) it is very heavy	
	b) no force acts on it	
	c) the table exerts a frictional force on it	
	d) the earth attracts it	
58	The force of gravitation acts	
	a) only between the earth and the bodies on it	
	b) only between the sun and the planets moving around it	
	c) between all bodies in the universe	
	d) only between the sun and the earth	
59	Which of the following is not true regarding friction.	
	a) Friction helps a ship move through water	
	b) Friction helps us walk	

	c) Friction produces heat	
	d) Friction wears down machine parts	
60	Which of the following effect is not produced by force? a) Change in direction b) Change in shape c) Change in speed d) Change in mass	
61	The shoes of football player have spikes in their sole to a) Make frictionless b) Increase friction c) Decrease friction d) Hard hitting the ball	
62	Which of the following method is not used to reduce friction? a) Greasing b) Using ball bearing c) Treading the tyres of vehicles d) Lubricating	
63	The heat in metals is conducted by the process of a) Conduction b) Absorption c) Radiation d) Convection	
64	Striker moves longer distance on carom when a) Striker is old b) Striker is new c) Powder is sprinkled d) Carom board is neat and clean	

65	In a large commercial complex, there are four ways to reach the main road. One of the paths has loose soil, the second is laid with polished marble, the third is laid with bricks and the fourth has a gravel surface. It is raining heavily and Paheli wishes to reach the main road. The path on which she is least likely to slip is a) bricks b) loose soil c) gravel d) polished marble	
66	A car with worn out treads on tyres is more likely to skid due to a) Smaller size of tyres b) Less friction c) Less weight of tyres d) More friction	
67	A body is rolling over the ground or sliding over the same ground. In which case, the friction will be more? a) When sliding b) When rolling c) Equal in both case d) There is no friction in both case	
68	Engine oil is applied on iron shutters to _____ friction. a) keep same b) increase c) decrease d) remove	
69	Friction between any two objects is due to a) Even surfaces of them	

	b) Attraction between them
	c) Repulsion between them
	d) Surface irregularities on them
70	Which of the following method is applied to increase friction of vehicles?
	a) Regular oiling of engine
	b) Less inflating the tyres
	c) Cleaning of vehicles
	d) Treading of tyres
71	A body will experience the minimum friction in –
	a) Vacuum b) Air c) Fresh water d) Sea water
72	Friction depends upon
	a) Smoothness of surface and nature of surface
	b) Time of the activity
	c) Smoothness of surface only
	d) Nature of surface only
73	To walk on slippery ground is difficult because the
	a) Ground offer very high resistance to walk
	b) Habit of walking on slippery ground is not enough to us
	c) Frictional force is not enough to prevent slip
	d) Frictional force is very high to walk
74	Sandpaper is used to clean the metal surface to remove rust as because
	a) Sandpaper has rough surface to increase friction
	b) Sand paper has smooth surface to increase friction
	c) Sand paper has rough surface to decrease friction
	d) Metal and sand paper reacts easily

75	The force required to keep the object moving with same speed is a measure of a) Rolling friction b) Sliding friction c) Static friction d) Contact friction	
76	Streamlining is a) making back thick b) making back thin c) Making tips thin d) making tips thick	
77	Which of the following method is applied in moving parts of machine to reduce friction? a) Converting sliding friction into rolling friction b) Polishing the area of contact c) Using oils and lubricants d) Converting rolling friction into sliding friction	
78	Force of friction always acts on all a) Heavy object b) Lighter object c) Stationary object d) Moving object	
79	Frictional force is necessary in a) Playing carom b) Accelerating the car	

	c) Using matchstick	
	d) Pushing heavy load	
80	Rolling friction is smaller than?	
	a) Fluid friction	
	b) All of these	
	c) Static friction	
	d) Sliding friction	
81	The revolt of 1857 began from:	
	a) Lucknow	
	b) Meerut	
	c) Kanpur	
	d) Awadh	
82	Among the following Residents of British India, who was forced to take refuge in a residency and killed by the forces of Begum Hazrat Mahal?	
	a) John Nicholson	
	b) John Lawrence	
	c) Henry Havelock	
	d) Sir Henry Lawrence	
83	Which one of the following best describes a Resident with respect to British India?	
	1. A senior British Government administrative official positioned in a local place and controlling the happenings of the kingdom.	
	2. A local landlord to keep a check on the land revenue.	
	3. A local money lender collecting revenue.	
	4. An official who administers an oath to the soldiers.	
	a) Only A	

	b) Only B	
	c) Only D	
	d) Only C	
84	Who led the revolt in Kanpur? a) Mangal Pandey b) Nana Saheb c) Bahadur Shah Zafar d) Begum Hazrat Mahal	
85	Name the able commander in chief of Nana Saheb who led the revolt in Kanpur. a) Maulvi Ahmadullah b) Tantia Tope c) Bahadur Shah Zafar d) Mangal Pandey	
86	Which one from the following options refers to the term Firangis? a) Residents of India b) Foreigners c) Landlords d) Money lenders	
87	The East India Company began to plan how to bring the Mughal dynasty to an end. In 1849, Governor - General Dalhousie announced the death of _____. a) Rani Laxmi Bai b) Bahadur Shah Zafar c) Nana Saheb d) Tantiya Tope	

88	Name the Indian soldier who tried to rebel against the British at Barrackpore, but was arrested and hanged to death on 8th April 1857. a) Tantia Tope b) Mangal Pandey c) Nana Saheb d) Bahadur Shah Zafar	
89	Name the person who was a part of the Scottish missionary who helped to establish the Serampore Mission. a) William Ward b) Andrew Fuller c) William Carey d) Hudson Taylor	
90	William Adam toured the districts of: a) Bihar and Bengal b) Bihar and Orissa c) Assam and Bengal d) Bengal and Rajasthan	
91	Which year did the East India Company decide to improve the system of vernacular education? a) 1854 b) 1860 c) 1800 d) 1900	
92	What was the important measure taken by the East India Company to improve vernacular education? 5. They appointed a number of government pandits in charge of schools and asked them to inspect the schools.	

6. They allowed only higher education neglecting primary education.

7. They introduced high fees and introduced grants.

8. They closed down many local schools.

a) Only C

b) Only B

c) Only A

d) Only D

93	Which year did the Court of Directors of the East India Company in London send an educational dispatch to the Governor - General in India? a) 1854 b) 1880 c) 1800 d) 1890	
94	A Madrasa was set up in Calcutta in 1781 to promote the study of a) Hindi b) Arabic c) Muslim religion d) Ancient history of India e) Urdu	
95	Who as a part of the Scottish missionary toured the districts of Bengal and Bihar in the 1830s? a) William Carry b) Andrew Fuller c) Francois Solvyn d) William Adam	
96	The temples of darkness that were falling of themselves into decay. Who said	

	these words about Calcutta, Madras,and Benares Sanskrit College? a) Lord Ripon b) Lord William Bentick c) Lord Macaulay d) Lord Dalhousie	
97	Which of these is a tertiary activity? a) None of these b) Manufacturing wool c) Agriculture d) Selling grocery	
98	Pick out the example of secondary economic activity from the given list of options. a) Processing of Steel b) Mining c) Transport d) Agriculture	
99	Which of the following animals is not reared by the nomadic herders? a) Yak b) Sheep c) Camel d) Mongoose	
100	A few statements about Intensive Subsistence agriculture are given below. Pick out the one that is **not** applicable. a) Bright sunny days with and fertile soils aides in growing more than one crop annually b) Rice is the main crop	

	c) It is prevalent in the monsoon regions of south, southeast, and east Asia	
	d) A plot of land is cleared by felling the trees and burning	
101	Golden Fibre refers to a) None of these b) Tea c) Cotton d) Jute	

102	Which one of the following best describes intensive subsistence agriculture?
	
	  9. A plot of land is cleared by felling the trees and burning them in thickly populated forested areas.
	
	  10. The farmer cultivates a small plot of land using simple tools and more labour.
	
	  11. Crops are grown and animals are reared for sale in the market.
	
	  12. Herdsmen move from place to place with their animals for fodder and water along defined routes.
	
	a) Only B
	
	b) Only D
	
	c) Only A
	
	d) Only C	

103	A few examples of primary activities are given below. Pick out the one that is not a primary activity. a) Baking of bread b) Fishing c) Gathering d) Agriculture	
104	Banking, Insurance sectors, etc can be a good example of which of the following type of economic activity?	

	a) Tertiary
	b) Primary and Secondary
	c) Primary
	d) Secondary
105	People believe that Adivasis are: a) exotic, modern and backward b) extrovert, primitive and forward c) cunning, primitive and forward d) exotic, primitive and backward
106	Marginalisation results in having: a) Low social status b) Not equal education c) Both, Low social status and Not equal education d) None of these
107	What do you mean by Militarised? a) Presence of Major group b) Presence of Minor Group c) Presence of armed force d) Presence of Adivasis
108	_____ has the largest number of speakers and has a significant body of publications including magazines on the internet or in e - zones. a) Kharia b) Kurukh c) Santhali d) Mundari

109	How many national parks werethere in India in 2019?	
	a) 108	
	b) 106	
	c) 107	
	d) 104	
110	How many wildlife sanctuaries covering 1,09,652 square kilometer:	
	a) 570	
	b) 372	
	c) 458	
	d) 190	
111	From the 1830s onwards, Adivasis from Jharkhand and adjoining areas moved in very large numbers to various plantations in India and to which part of the world?	
	a) Mauritius, the Caribbean, and even Australia	
	b) Mauritius, the Caribbean, and even Asia	
	c) Brazil, the Caribbean, and even Africa	
	d) Brazil, the Caribbean, and even Australia	
112	Adivasis are invariably portrayed in very stereotypical ways in following except:	
	a) Headgear	
	b) Colourful costumes	
	c) State they live	
	d) Dancing	
113	The village spirits are worshipped at:	
	a) Specific Scared Groves	
	b) Home	

	c) Town
	d) All of these
114	Which article of the Constitution notes that no citizen of India shall be discriminated against on the basis of religion, race, caste, sex or place of birth? a) Article 16 b) Article 17 c) Article 18 d) Article 15
115	Who cannot avail of reservations? a) Brahmans b) Backward and most backward castes c) Adivasis d) Dalits
116	Which community has been mainly employed in manual scavenging? a) Dalits b) Poor women c) Adivasis d) Children
117	Who among the following can avail reservations? a) Women b) Brahmins c) None of these d) Dalits
118	Which Article of the Constitution states that untouchability has been abolished?

	a) Article 17
	b) Article 15
	c) Article 27
	d) Article 21
119	What was Kabir's caste occupation? a) Mason b) Potter c) Weaver d) Barber
120	Which Act states that this Act is meant to undo the historical injustices meted out to forest - dwelling populations in not recognising their rights to land and resources. 13. The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act 14. The Employment of Manual Scavengers and Construction of Dry Latrines (Prohibition) Act 15. The Scheduled Castes and the Scheduled Tribes (Prevention of Atrocities) Act 16. Dalits Act a) Only D b) Only C c) Only B d) Only A