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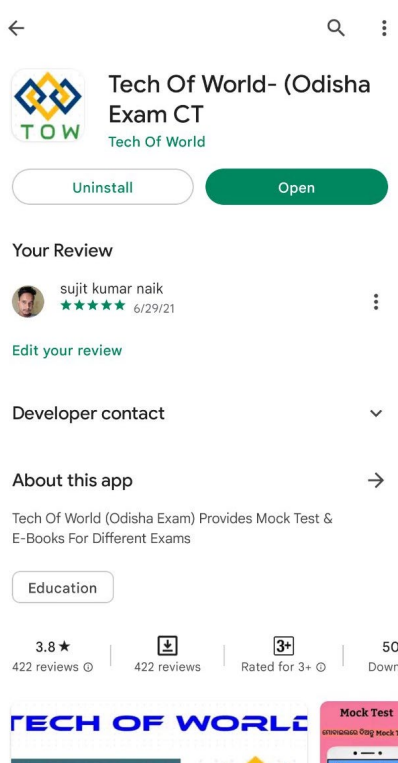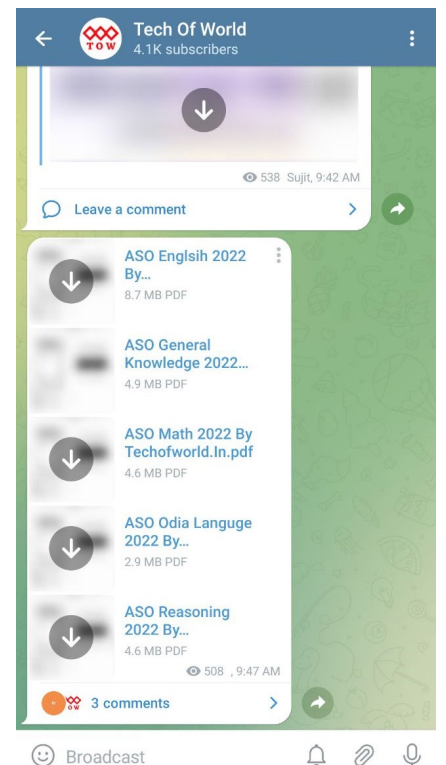- 2,300 ଟି ପୂର୍ବ ବର୍ଷର ପ୍ରଶ୍ନ
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Section 1 - PaperI-English Language

Passage Questions (1-5)

Read the passage and answer the questions that follow:

•At the corner, I turn left. The streets of Bakersfield are quiet on this early morning. By the time I reach the high school, it is just past seven o'clock. I pull into my parking space, gather my cookies, and go inside.
At the main desk, the school secretary, Bertha Collins, smiles up at me. "Hey, Joy."
"Hey, Bertie. I brought some cookies for tonight's faculty party."
Her look turns worried. "Aren't you coming?"
"Not this year, Bertie. I don't feel too festive."
She eyes me knowingly. As a twice-divorced woman, she thinks she understands, but she can't, not really. Bertie has three kids and two parents and four sisters. My own math doesn't add up that way. "Take care of yourself, Joy."

1) What did the speaker bring for the faculty dinner?

A) Books.
B) Cookies.
C) Toys.
D) Gifts.

2) Which of the following names does the passage primarily talk about?

A) Bertie.
B) Joy.
C) Peter.
D) Wendy.

3) Why does Bertie eye Joy knowingly?

A) She knew Joy from high school.
B) She recognised Joy very well.
C) She had been divorced like Joy.
D) She knew Joy's friends.

4) What could have made Joy think that Bertie was more privileged than her?

A)   Bertie had been divorced twice but she was now happily married.
B)   Bertie had a large family to seek support.
C)   Bertie was single and happy with her family.
D)   Bertie was financially secure because of her family inheritance.

5) Why didn't Joy go to the faculty party?

A) She was tired.
B) She didn't feel festive.
C) She had another work shift.
D) She didn't have the right dress.

6) Fill in the blank with the correct option:

A _____ came forward to help the sick man while _____ of the people in the village showed any compassion.

A) none, non
B) non,none
C) nun, none
D) none, nun

7) The idiom "Famous for being famous" means

A) having no recognizable reason for your fame other than high media exposure
B) having recognizable reason for your fame other than high media exposure
C) having the real qualities of a famous celebrity
D) having the dislike for being famous

8) Fill in the blank with correct prefix or suffix:

_____ data is necessary to understand a database design.

A) Meta
B) Per
C) In
D) Ex

9) Which of the following words is correctly spelt?

A) persevear
B) persevere
C) persievere
D) perseivare

10) Find out the option that best describes the idiom "Go Ballisti

A) Use missiles
B) Get frustrated
C) Being calm and quiet
D) Fly into a rage

Section 2 - PaperI-Education and General Awareness

11) Which of the following statements is CORRECT for the tip of a second needle (second hand) in a watch or a clock in one minute?

A) Its distance and displacement are both zero
B) Its average speed and distance are both zero
C) Its average velocity and displacement are both zero
D) Its average speed and average velocity are both zero

12) What is a 'cabinet form of government'?

A)   A form of government in which a group is collectively responsible to the parliament.
B)   A form of government in which a group is not responsible to the parliament and decides on the policies of the government
C)   A form of government in which a group is the real and popular head of the state
D)   A form of government in which all cabinet members are heads of the state

13) Jawahar Navodaya Vidyalayas are -

A) Co-educational, fully residential schools in rural areas
B) Only boys residential schools in rural areas
C) Only girls residential schools in rural areas
D) Co-educational, partly residential schools in rural areas

14) The Sapru Committee was appointed in 1934 by the Government of which state?

A) Maharashtra
B) West Bengal
C) Madhya Pradesh
D) Uttar Pradesh

15) According to the Right to Education Act 2009, what does 'elementary' education mean?

A) Preschool to Grade 5
B) Grades 1 to 5
C) Preschool to Grade 2
D) Grades 1 to 8

Section 3 - PaperI-Reasoning

16) Given below a question followed by 2 statements numbered I and II. Which of the statements is/are required to answer the question? Choose an appropriate option.

Question: In which year was Rehan born?

Statements:

(I) Rehan at present is 24 years younger to his mother.

(II) Rehan's brother, who was born in 1974 is 36 year younger to his mother.

A) Statement (I) ALONE is sufficient
B) Statement (II) ALONE is sufficient
C) Both statements (I) and (II) are sufficient
D) Statement (I) and (II) TOGETHER are not sufficient

17) In a certain code language, if the word ALPHABET is coded as TFCBIQMA, then how will the word COMPUTER be coded in that language?

A) RGUUQNPC
B) RFVVQNPC
C) RFUVQNPC
D) RFUVNQCP

18) In the following questions, mark:

1, if statement I alone is sufficient to answer the problem.

2, if statement II alone is sufficient to answer the problem.

3, if statements I and II both taken together are sufficient to answer the problem.

4, if statements I and II taken together are NOT sufficient to answer the problem.

What is the remainder obtained when positive integer A is divided by 2?

I. A is a multiple of 3.

II. A^3 is an odd number.

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

19) In the following questions, mark:

1, if statement I alone is sufficient to answer the problem.

2, if statement II alone is sufficient to answer the problem.

3, if statements I and II both taken together are sufficient to answer the problem.

4, if statements I and II taken together are NOT sufficient to answer the problem.

Sammy is Ronny's younger brother. Their pocket money is in the proportion 2:3 respectively. What is Sammy's pocket money?

I. Ronny's pocket money is ₹360.

II. Ronny gets more pocket money than Sammy.

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

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20) Tulshidas walks 10 m towards South and then turns right and walks 15 m. Then he turns left and walks 10 m. Then he again turns right and continue walking straight. In which direction is he walking finally?

A) South-east
B) West
C) North
D) South-west

Section 4 - PaperI-Teaching Aptitude

21) What was the main emphasis of University Education Commission (1948-49)?

A) Primary education
B) Secondary education
C) Pre-primary education
D) Higher education

22) Which of the following Learning Theories are highly value driven?

A) Cognitive theories
B) Constructive theories
C) Humanistic theories
D) Behavioristic theories

23) Identify the key feature of Passive agencies from the following.

A) The teaching-learning process is two way.
B) These cannot create public opinion and public control.
C) Schools and colleges are the examples of passive agencies.
D) They influence the learners but they are not influenced in return.

24) A school uses only play way method for teaching learning . Which of the following philosophies does this school largely follow?

A) Dualism
B) Empiricism
C) Realism
D) Naturalism

25) Identify the form of teaching and learning in which the teacher and learner are NOTin the same place at the same time.

A) Active learning
B) Collaborative learning
C) Distance learning
D) Laboratory method of learning

26) Which of the following statements is a good example for rote learning?

A)   A teacher reads a story and tells children to retell it in groups.
B)   A teacher asks children to think of different things related to the theme 'family' and make a word web.
C)   A teacher reads a poem and asks them to extend it with their own two lines.
D)   A teacher reads a story and asks children to copy down the meanings of words and write the words five times.

27) While teaching in the class, suddenly there is a loud noise which diverts the attention of the whole class. This is known as _____

A) Voluntary and non spontaneous attention
B) Involuntary and spontaneous attention
C) Involuntary and non spontaneous attention
D) Voluntary and spontaneous attention

28) Match the examples with the terms.

i. Long term memory	A. a child remembers her name, address and phone number
ii. Short term memory	B. a child can use her bicycle after she falls down and then wins the cycle race
iii. Episodic Memory	C. a child writes down the sums from the board

A) i. A, ii. B, iii. C
B) i. B, ii. A , iii. C
C) i A, ii. C, iii. B
D) i. C, ii. A, iii. B

29) Which of the following organizations has established the National Institute of Education (NIE) at Delhi and four regional colleges of education at Ajmer, Bhopal, Bhubaneswar and Mysore?

A) NCTE
B) CIET
C) NCERT
D) NUEPA

30) A teacher wants to teach a topic which involves the student to discriminate between two concepts. Which of the following should be used by the teachers?

A) Motor learning
B) Discrimination choices
C) Discrimination learning
D) Cognition choices

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Section 5 - PaperII-Physical Science

31) What will be the energy of the 5th orbit of hydrogen atom if the energy of the 1st orbit of this atom is 13.6 eV?

A) (-0.54) eV
B) (-2.72) eV
C) (0.54) eV
D) (-68) eV

32) Which among the following are the products formed when iron filings are heated with dilute HCl?

A) Iron(III) chloride with water
B) Iron(II) chloride with water
C) Iron(II) chloride with hydrogen gas
D) Iron(III) chloride with hydrogen gas

33) If the resistivity of an alloy is ρ' and that of constituent metals is ρ, then

A) $\rho' > \rho$
B) $\rho' < \rho$
C) $\rho' = \rho$
D) No relationship exist between those two resistivities

34) The SI unit of intensity of sound is

A) W^2
B) m^2
C) Wm^{-2}
D) Wm^{-1}

35) A certain force applied to mass m_1 gives it an acceleration of 6 ms^-2. The same force applied to mass m_2 gives it an acceleration of 3 ms^-2. If the two masses are fixed together and the same force is applied to the combination, acceleration in m/s^2 of it would be

A) 2
B) 0.5
C) 3
D) 4

36) Which of the given molecules have a square planar geometry?

A) $[BH_4]^-$
B) $[NH_4]^+$
C) ICl_4^-
D) CCl_4

37) Which among the following is the CORRECT order of covalent radii of the group 13 elements?

A) $Al = Ga < In < Tl$
B) $Al < Ga < In < Tl$
C) $Ga < Al < In < Tl$
D) $In < Tl < Al < Ga$

38) The solution which is used for white washing is,

A) CaO_3
B) CaO
C) Ca_2O
D) CaO_2

39) When magnesium ribbon is burned in presence of oxygen, magnesium oxide is formed. What will be the equation for this reaction?

A) $2Mg + O_2 \rightarrow 2MgO$
B) $Mg_2 + O_2 \rightarrow MgO$
C) $Mg + O_2 \rightarrow MgO_2$
D) $Mg + O_2 \rightarrow Mg_2O$

40) The charge flowing in a conductor varies with time as $Q = at - bt^2/2 + ct^3/6$, where a, b, c are positive constants. Then, the current

A) has an initial value $i = a/2$
B) reaches a minimum value after a time period $t = b/2c$
C) reaches a maximum value after a time period $t = 2b/c$
D) has either a maximum or a minimum value $i = a - b^2/2c$

41) A voltmeter and an ammeter are joined in series to an ideal cell, giving readings V and A respectively. If a resistance equal to the resistance of the ammeter is now joined in parallel to the ammeter,

A) V will not change
B) V will increase slightly
C) A will become exactly half of its initial value
D) A will show the same reading

42) 2 kg of ice at - 20 °C is mixed with 5 kg of water at 20 °C in an insulating vessel having a negligible heat capacity. The specific heats of water and ice are 1 k cal /kg /°C and 0.5 k cal / kg /°C, while the latent heat of fusion of ice is 80 kcal/kg. The final mass of water remaining in the container will be

A) 7 kg
B) 6 kg
C) 8 kg
D) 5 kg

43) Water of volume 2 L in a container is heated with a coil of 1 kW at 27 °C. The lid of the container is open and the energy dissipates at the rate of 160 J/s. In how much time temperature will rise from 27 °C to 77 °C? (specific heat of water is 4.2 kJ/kg)

A) 8 min 20s
B) 6 min 2 s
C) 7 min
D) 14 min

44) A block of mass M is pulled along a horizontal frictionless surface by a rope of mass m_1. Force P is applied at one end of rope. The force which the rope exerts on the block is

A) $PM/(M+m_1)$
B) $2PM/(M+m_1)$
C) $PM/(M-m_1)$
D) $Pm_1/(M+m_1)$

45) An 8000 kg engine pulls a train of 5 wagons, each of 2000 kg along a horizontal track. If the engine exerts a force of 40,000 N and the track offers a force of 5000 N, then the acceleration of the train and the force of the wagon1 on rest of the wagons are

A) 1.94 m/s^2 & 15,552 N
B) 1.94 m/s^2 & 19400 N
C) 3.5 m/s^2 & 28,000 N
D) 3.5 m/s^2 & 35,000 N

46) The position of an electron at a given time has an accuracy of ± 2 Å. What will be the uncertainty in the position of the electron after 2 s? (Given, mass of the electron = 9.1 x 10^{-31} kg & Planck constant, h = 6.626 x 10^{-34} J/Hz)

A) 71 km
B) 578 km
C) 645 km
D) 23 km

---

47) When dilute HCl is added to granulated zinc taken in a test tube, the following observations are recorded, point out the correct observation.

A) The surface of the metal is shining
B) The reaction mixture turns milky
C) Odour of a pungent smelling gas is recorded
D) A colourless and odour less gas is evolved

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48) Two sources of equal emf are connected to an external resistance R. The internal resistances of the two sources are R_1 and R_2 ($R_2 > R_1$). If the potential difference across the source having internal resistance R_2, is zero, then

A) $R = (R_2 + R_1)/(R_2 - R_1)$
B) $R = R_1R_2/(R_1 + R_2)$
C) $R = R_2 - R_1$
D) $R = R_1R_2/(R_2 - R_1)$

---

49) A ball is dropped from a height of 20 m above the surface of water in a lake. The refractive index of water is 4/3. A fish inside the lake, in the line of fall of the ball, is looking at the ball. At an instant, when the ball is 12.8 m above the water surface, the fish sees the speed of ball as:

A) 9 m/s
B) 12 m/s
C) 16 m/s
D) 21.33 m/s

---

50) Consider elastic collisions of a particle of mass m moving with a velocity v with another particle of the same mass at rest. After the collision the projectile and the struck particle move in directions making angles θ1 and θ2 respectively with the initial direction of motion. The sum of the angles is

A) 45
B) 180
C) 135
D) 90

Section 6 - PaperII-Biological Science

51) Which among the following is the largest gland in the human body?

A) Liver
B) Thyroid
C) Pituitary
D) Adrenal

52) What is the function of lysosomes in a cell?

A) Intracellular digestion
B) Extracellular digestion
C) Both Intracellular and Extracellular digestion
D) Breakdown of fatty acids

53) Which of the following organism is an unicellular eukaryote?

A) Cladophora
B) Yeast
C) Nostoc
D) Slime mould

54) Acid rain is a rainfall with a pH

A) of 9
B) between pH 7-8.8
C) between pH 6-6.5
D) less than pH-5.6

55) Which of the following is an example of a non-renewable resource?

A) Wildlife
B) Forests
C) Water
D) Coal

56) Protonephridia is the excretory structure of

A) Protozoans
B) Porifera
C) Platyhelminthes
D) Arthropod

57) Which of the following hormones are only produced in women during pregnancy?

A) Prolactin Techofworld.In
B) Relaxin
C) Oxytocin
D) Estrogen

58) Which of the following statements regarding endoplasmic reticulum is INCORRECT?

A) They synthesize lipids
B) They detoxify drugs
C) They synthesize secretary and lysosomal proteins
D) They are double-membrane bound cell organelles

59) Match the following cell organelles in List I with their components in List II.

List I	List II
a. Centriole	(i) Cristae
b. Mitochondria	(ii) Spokes
c. Inclusion bodies	(iii) Axoneme
d. Cilia	(iv) Phosphate granules

A) (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)
B) (a)-(ii), (b)-(i), (c)-(iii), (d)-(iv)
C) (a)-(ii), (b)-(i),(c)-(iv), (d)-(iii)
D) (a)-(iii),(b)-(iv), (c)-(ii), (d)-(i)

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60) Select the type of the phylum of the soft bodied animals and the rasping organ for feeding in their body respectively.

A) Arthropods, Tube feet
B) Mollusca, Malpighian tubules
C) Mollusca, Radula
D) Annelida, Radula

61) Triploblastic invertebrates have been categorized under various phylums. Select the CORRECT match of the phylum and the body pattern of the organisms belonging to this phylum.

A) Cnidarians-segmented
B) Annelids-segmented
C) Cnidarians-motile
D) Annelids-unsegmented

62) In a Biotic succession, which community is relatively stable and is in near equilibrium with the environment of that area?

A) Pioneer Community
B) Transitional Community
C) Seral Community
D) Climax Community

63) The natural reservoir of phosphorus is

A) Soil
B) Lake
C) Ocean
D) Rock

64) The Nitrogen cycle is a biogeochemical process that makes usable nitrogen available to plants and other living organisms. The usable form of nitrogen is/are

A) Only nitrites
B) Only nitrates
C) Both nitrites and nitrates
D) Neither nitrites nor nitrates

65) The inorganic nutrient enrichment of natural waters, leading to an increased production of algae and macrophytes is usually known as

A) Detoxification
B) Nitrification
C) Eutrophication
D) Acetification

66) The major limiting factor for photosynthesis in C_3 plants is

A) CO_2
B) Temperature
C) Light
D) Water

67) Read the following statements and choose the CORRECT option.

(i) Lampbrush chromosome is observed in pachytene stage of meiosis in primary oocytes.

(ii) Polytene chromosomes which have low DNA content are formed by the process of endomitosis.

A) (i) is TRUE and (ii) is TRUE
B) (i) is TRUE and (ii) is FALSE
C) (i) is FALSE and (ii) is TRUE
D) (i) is FALSE and (ii) is FALSE

68) Match the following organisms in List I with their larvae in List II.

List I	List II
(a) Cnidaria	(i) Dipleurula
(b) Echinoderm	(ii) Planula
(c) Fly	(iii) Trochophore
(d) Annelid	(iv) Maggot

A) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)
B) (a)-(ii), (b)-(iv), (c)-(i), (d)-(iii)
C) (a)-(iii), (b)-(i), (c)-(ii), (d)-(iv)
D) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)

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69) Primary productivity depends on

(i) Photosynthetic activity

(ii) Availability of nutrients

(iii) Decomposition of organic material

(iv) Secondary consumers

Select the CORRECT answer option among the given options.

A) (ii) and (iv) only
B) (i) and (ii) only
C) (iii) and (iv) only
D) (i) and (iv) only

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70) Which of the following biodiversity conservation approaches are considered as ex situ conservation?

A) DNA Banks and Biosphere reserves
B) DNA Banks and Botanical Gardens
C) Botanical Gardens and National Parks
D) National Parks and Wildlife Sanctuaries

Section 7 - PaperII-Mathematics

71) What is the radius of the circumcircle of a triangle with sides 3, 4, 5 units?

A) 1
B) 1.5
C) 2
D) 2.5

72) 2 pencils and 3 erasers cost ₹ 55, 4 erasers and 1 pen cost ₹ 85, 5 pencils and 6 pens cost ₹ 140. What is the cost of one pen, one pencil and one eraser?

A) 35
B) 40
C) 45
D) 50

73) For how many positive integers (n^2+1) is divisible by $(n+1)$?

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

74) If A={1,2,3,4,5,6,7,8} and B={-1,-2,-3,-4} then how many relations from set A to set B can be mapped?

A) 12
B) 16
C) 24
D) 32
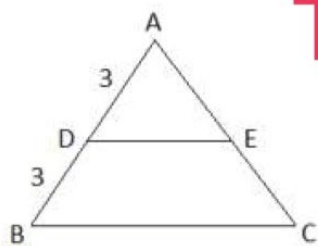
75) If $9^3 \times 3^5 \times 27 = 9^x$, then $x =$

A) 7
B) 9
C) 6
D) 8

76) An observer whose height is 2 m is 10√3 m away from a tower. The angle of elevation from his eye to the top of the tower is 30 degrees. What is the height of the tower?

A) 12 m
B) 14 m
C) 10 m
D) 8 m

77) In the given triangle Δ ABC, AD = DB = 3. If DE ∥ BC, then which of the following relations must be true?

A) AE + EC = 6
B) DE = BC / 2
C) DE = BC / 3
D) ∠ABC = ∠ACB

78) If x+y+z = 17, 2x+y+5z = 66 and 7x+8y+4z = 97, then x+y+z =

A) 22
B) 18
C) 24
D) 16

79) If the length and breadth of an object are 20 m and 6 cm respectively, then what is the ratio of its length to its breadth?

A) 1:3
B) 10:3
C) 100:3
D) 1000:3

80) If n(A)=15 and n(B)=25 and n(A U B)=36, then what is the number of elements in A ∩ B?

A) 4
B) 6
C) 8
D) 10

81) $\log 360 =?$ Techofworld.In

A) $2\log 3 + 3\log 3$

B) $3\log 3 + 2\log 3$

C) $2\log 2 + 2\log 3 - \log 5$

D) $3\log 2 + 2\log 3 + \log 5$

82) What is the value of log 125, given that log 5 = 0.699?

A) 1.699
B) 2.097
C) 1.398
D) 3.354

83) From the top of a hill of height 150 m, the angles of depression of the top and bottom of a pole are 30 degrees and 60 degrees respectively. What is the height of the pole?
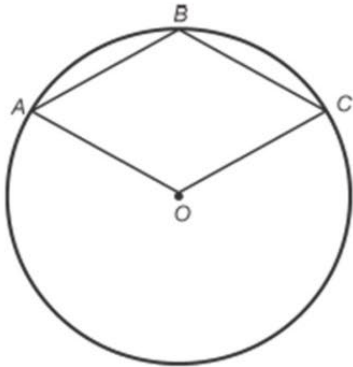
A) 100 m
B) 90 m
C) 80 m
D) 70 m

84) A vertical tower stands on ground and is surmounted by a vertical flagpole of height 18 m. At a point on the ground, angle of elevation of the bottom and the top of the flagpole are 30 degrees and 60 degrees respectively. What is the height of the tower?

A) 12 m
B) 10 m
C) 9 m
D) 7 m

85) In the given figure, O is the centre of the circle. If the measure of angle ∠ACO is 40°, then what is the measure of angle ∠ABC?

A) 100°
B) 110°
C) 120°
D) 130°

---

86) If the roots of $a x^2 + bx + c = 0,$ where $(a>0)$ be each greater than unity, then

A) $a + b + c = 0$
B) $a + b + c > 0$
C) $a + b + c < 0$
D) $a + b - c > 0$

---

87) A two digit number XY is reversed and thus the new number YX is 36 less than the original number. If the ratio of X:Y is 2:1. Find the ratio of X+Y to X-Y.

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

---

88) A total of 55 athletes participated in an athletic meet. 24 won bronze medals, 36 won silver medals and 12 won gold medals. 10 won gold and silver, 15 won silver and bronze, 8 won gold and bronze. If 6 athletes won all the three medals, then how many of them won exactly two medals?

A) 17
B) 18
C) 21
D) 15

89) $If \log(\log(a^2 - a - 20)) = 0 \ for \ a > 0, then \ a =$

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

90) What is the value of (sinA+sin3A)/(cosA+cos3A)?

A) cos2A

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B) sec2A
C) tan2A
D) cot2A

Question Paper No:	62268_27
Answer Key	

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1	B	31	A	61	B
2	B	32	D	62	D
3	C	33	A	63	D
4	B	34	C	64	C
5	B	35	A	65	C
6	C	36	C	66	A
7	A	37	A	67	D
8	A	38	B	68	A
9	B	39	A	69	B
10	D	40	D	70	B
11	C	41	B	71	D
12	A	42	B	72	B
13	A	43	A	73	D
14	D	44	A	74	D
15	D	45	A	75	A
16	C	46	B	76	A
17	C	47	D	77	B
18	B	48	C	78	B
19	A	49	C	79	D
20	B	50	D	80	A
21	D	51	A	81	D
22	C	52	C	82	B
23	D	53	D	83	A
24	D	54	D	84	C
25	C	55	D	85	D
26	D	56	C	86	B
27	B	57	B	87	C
28	C	58	D	88	D
29	C	59	C	89	D
30	C	60	C	90	C