

QUESTION PAPER (PHASE - I)

CLASS - VIII

ENGLISH (15)

- Q1. Select the correct passive form of the given sentence: Let him finish the task.
- (A) Let the task finished by him.
- (B) Let the task be finished by him.
- (C) The task is let finished by him.
- (D) Let him be finished the task.
- Q2. Which active-to-passive transformation is CORRECT?

She knows him very well.

(A) He is known to her very well.

(B) He is known very well by her.

(C) He was known by her.

- (D) He is known by her.
- Q3. Which sentence uses an abstract noun incorrectly?
- (A) Her honesty was appreciated by everyone.
- (B) The sceneries of Kashmir are breathtaking.
- (C) Childhood is the best phase of life.
- (D) Freedom is priceless.
- Q4. Which pronoun is used incorrectly?
- (A) It was she who won the award.
- (B) This is the man whom I met yesterday.
- (C) He introduced himself to the new teacher.
- (D) Between you and I, this plan will fail.

Q5. Which sentence is punctuated correctly?					
(A) She asked me whether I was free, and if I could help her.					
(B) She asked me,	whether I was free and if	I could help her.			
(C) She asked me whether I was free and, if I could help her.					
(D) She asked me	whether, I was free and if	I could help her.			
Q6. Which of these two pens is?					
(A) good	(B) more good	(C) better	(D) more better		
Q7. Correct the e	rror:				
She is more wiser	than her sister.				
(A) Replace 'more	wiser' with 'wiser.'	(B) Replace 'her'	with 'she.'		
(C) Replace 'more	with 'most.'	(D) No correction	(D) No correction needed.		
Q8. Synonym of t	he word 'oblivious':				
(A) Aware	(B) Unaware	(C) Careful	(D) Attentive		
Q9. Antonym of t	he word 'conspicuous':				
(A) Hidden	(B) Noticeable	(C) Obvious	(D) Clear		
Q10. Which is an	intransitive verb?				
(A) She kicked the ball.		(B) He reads a novel.			
(C) The child sleeps peacefully. (D) They played cricket.					
Q11. When the te	acher entered the class,	the students	•		
(A) leaving	(B) are leaving	(C) had leaving	(D) had left		
Q12. He is	M. A. in Engl	ish.			
(A) the	(B) an	(C) a	(D) No article needed		
Q13. Not until the	e seventeenth century	to measure	the speed of light.		
(A) did anyone even attempt		(B) anyone did even attempt			
(C) did anyone attempt even		(D) did even attempt anyone			
Q14. Wild strawberries are		cultivated strawberries.			
(A) not sweeter		(B) not as sweet as			
(C) less sweeter than		(D) not sweet as	(D) not sweet as		
Q15. If I were a star, Ithe needy.					
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(A) will helps

(B) helps

(C) would help

(D) None of the above

MATHEMATICS (15)

Q16.
$$\left[\left\{ \left(\frac{2}{3} \right)^{-2} \times \left(\frac{256}{625} \right)^{\frac{1}{2}} \right\}^{\frac{-1}{2}} \div \left(\left(\frac{4}{3} \right)^{-2} \right)^{3} \right] \times \left(\frac{1}{0.1} \right)^{-1} = \dots$$

 $(A)\frac{4^5}{3^6}$

- (B) $\frac{4^5}{3^7}$
- $(C)\frac{4^6}{3^5}$
- (D) $\frac{3^5}{4^6}$

Q17. Twelve-sided dice are used in adventure games. They are marked with the numbers 1 to 12. The score is the uppermost face. If this type of dice is thrown, then what is the probability that the score is a factor of 12?

 $(A)\frac{1}{2}$

(B) $\frac{3}{4}$

- $(C)\frac{1}{6}$
- (D) $\frac{1}{4}$

Q18. A student rides on a bicycle at 8 km/hour and reaches his school 2.5 minutes late. The next day he increases the speed to 10 km/hour and reaches school 5 minutes early. How far is the school from the house?

(A) 7 km

(B) 6 km

- (C) 5 km
- (D) 4.5 km

Q19. A worker was paid \$1,700 during a period of 30 days. During this period he was absent for 4 days and was fined \$15 per day for the absence. He was paid the full salary only for 18 days as he came late on the other days. Those who came late were given only half the salary for that day. Find the total salary paid per month to a worker who came on time every day and was never absent:

(A) \$2400

- (B) \$3000
- (C) \$2700
- (D) \$2250

Q20.
$$\frac{3+\sqrt{6}}{5\sqrt{3}-2\sqrt{12}-\sqrt{32}+\sqrt{50}}=?$$

(A) 3

(B) $3\sqrt{2}$

- (C) 6
- (D) None of these

Q21. Match the following:

List	I	Lis	st II
P.	Add $x^5 + 8x^3 - 7x^2 + 12$ and $-3x^3 + 10x^2 + 8$	1.	$-x^3 - 3x^2 + 3x + 2$
Q.	Subtract $2x^2y + 4x^2y^2 + 3xy^2$ from $5x^2y + 7xy^2$	2.	$-x^3 + x^2 + 3x - 6$
R.	Subtract $2x^3 + 2x^2 - 4x - 4$ from $x^3 - x^2 - x - 2$	3.	$x^5 + 5x^3 + 3x^2 + 20$
S.	Add $x^3 - x^2 - x - 2$ and $2x^2 - 2x^3 + 4x - 4$	4.	$3x^2y + 4xy^2 - 4x^2y^2$

(A) P-3, Q-4, R-1, S-4

(B) P-3, Q-4, R-1, S-2

(C) P-2, Q-4, R-3, S-1

(D) P-2, Q-3, R-4, S-1

(A)18700	(B) 11862	(C) 25320	(D) 19710	
Q23. $(x^2+3x+5)(x^2+3x+5)$	$(x^2-3x+5) = m^2-n^2$, what is	is the value of m?		
(A) x^2-3x	(B) 3x	(C) x^2+5	(D) $x^2 + 3x$	
	ⁿ b ^p should be added to ename and the value of (m + 1		to make it a perfect	
(A) 6	(B) 10	(C) 8	(D) 12	
	the radius of the base are a the cylinder be 162	· ·	cylinder is 37 m. If the total :	
(A) 4620 m^3	(B) 4630 m^3	(C) 4520 m^3	(D) 4830 m^3	
Q26. Find the to	tal surface area of a cul	be whose volume is 34	43 cm ³ .	
(A) 350 cm^2		(B) 494 c	m^2	
(C) 200 cm^2		(D) 294 cm^2		
Q27. What is th	e square root of $9 + 2$	14 ?		
(A) $1 + 2\sqrt{2}$	$(B)\sqrt{3}+\sqrt{6}$	$(C)\sqrt{2}+\sqrt{7}$	$(D)\sqrt{2}+\sqrt{5}$	
Q28. An experin	nent yields 3 mutually e	exclusive and exhaust	ive events A, B, and C.	
If $P(A) = 2 P(B)$	= 3 P(C), then $P(A)$ is:	:		
$(A)\frac{2}{11}$	(B) $\frac{3}{11}$	(C) $\frac{5}{11}$	(D) $\frac{6}{11}$	
Q29. If $10^{3x} = 125$, then value of 10^{-2x} is:				
$(A)\frac{1}{5}$	(B) $\frac{1}{25}$	(C) $-\frac{1}{25}$	(D) 25	
Q30. If $a + b + c$	= 14, $ab + bc + ca = 47$	and abc = 15 then fin	d the value of $a^3 + b^3 + c^3$.	
(A) 815	(B) 825	(C) 835	(D) 845	

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Q22. In the five-digit number 1b6a3, a is the greatest single-digit perfect cube and

twice of it exceeds b by 7. Then the sum of the number and its cube root is _____.

SCIENCE (20 Marks) Phy. + Chem. + Bio

PHYSICS (5)

-	re exerted by him on th	ng shoes with pointed hee e land will be:	els. Compared to	
(B) more, because the	e area is small.			
(C) same, as weight is unchanged.				
(D) zero, since pressu	re does not depend on are	ea.		
- •		mall piston with area 0.0 ger piston of area 0.5 m ² ? (C) 5000 N	-	
Q33. Which of the fo	ollowing situations show	s useful friction?		
(A) Wear and tear of machine parts		(B) Skidding of vehicles on a wet road		
(C) Walking without slipping		(D) Heat produced in brake shoes		
Q34. A lightning conductor on a building is connected to:				
(A) plastic rod fixed on the roof				
(B) thick copper strip ending deep inside the Earth				
(C) an iron plate kept on the roof				
(D) wooden plank buried in the soil				
Q35. The epicenter of an Earthquake is				
(A) the point deep inside Earth where the earthquake originates.				
(B) the point on Earth's surface directly above the focus.				
(C) the region where maximum damage occurs always.				

(D) the place where earthquake waves are first recorded.

CHEMISTRY (5)

Q36. Identify A, B, C and D from the given diagram. The given diagram shows the electro- refining of copper.

- (A) A Cathode (Pure Copper)
- B Anode (Impure Copper)
- C Cathode mud
- D- Acidified copper sulphate solution
- (B) A Cathode (Impure Copper) B Anode (Pure Copper)

 - C Cathode mud
- D- Acidified copper sulphate solution
- (C) A Anode (Impure Copper)
- B Cathode (Pure Copper)
- C Anode mud
- D- Acidified copper sulphate solution
- (D) A Anode (Pure Copper)
- B Cathode (Impure Copper)
- C Anode mud
- D- Acidified copper sulphate solution

Q37. Why is coke used in the extraction of metals instead of coal?

- (A) Coke acts as a reducing agent.
- (B) Coke is lighter than coal.
- (C) Coke produces colorful flames.
- (D) Coal cannot be burned.

Q38. Which of the following is petroleum by product used in medicines and cosmetics?

(A) Bitumen

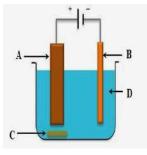
- (B) Paraffin wax
- (C) Diesel
- (D) Kerosene

Q39. A candle burns with a yellow luminous flame in normal air. If the same candle is placed inside a jar of pure oxygen, the flame turns bluish. This happens because _____.

- (A) oxygen increase the soot formation.
- (B) oxygen absorbs carbon particles.
- (C) yellow color is not possible in oxygen.
- (D) high oxygen supply causes complete combustion.

Q40. Which of the following observation best distinguishes the luminous zone from the non-luminous zone of a flame?

- (A) Luminous zone gives less light
- (B) Luminous zone produces soot while non-luminous does not
- (C) Luminous zone has maximum temperature
- (D) Both zones contain no oxygen



BIOLOGY (5)

Q41. Which of the following is a correct application of micro-organisms in industry?

- (A) Yeast in bread making due to lactic acid fermentation.
- (B) Lactobacillus in vinegar production by alcohol fermentation
- (C) Penicillium in antibiotic production due to secretion of penicillin
- (D) Algae in oxygen removal during water purification.

Q42. A farmer notices that milk in the summer season turns sour faster than in winter.

The main scientific reason is:

- (A) Lactobacillus grows faster at high temperature
- (B) Milk proteins break down quickly in heat
- (C) Fats in milk get oxidized
- (D) Enzymes in milk become inactive in cold

Q43. A boy's voice cracks during adolescence. This mainly happens because:

- (A) voice box stops vibrating
- (B) vocal cord shrinks during puberty
- (C) oxygen intake reduces during growth
- (D) voice box grows rapidly and vocal cord lengthens

Q44. Which of the following is not a secondary sexual characteristic in boys?

(A) Broadening of shoulders

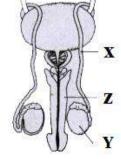
(B) Production of sperm

(C) Increase in height

(D) Growth of beard and moustache

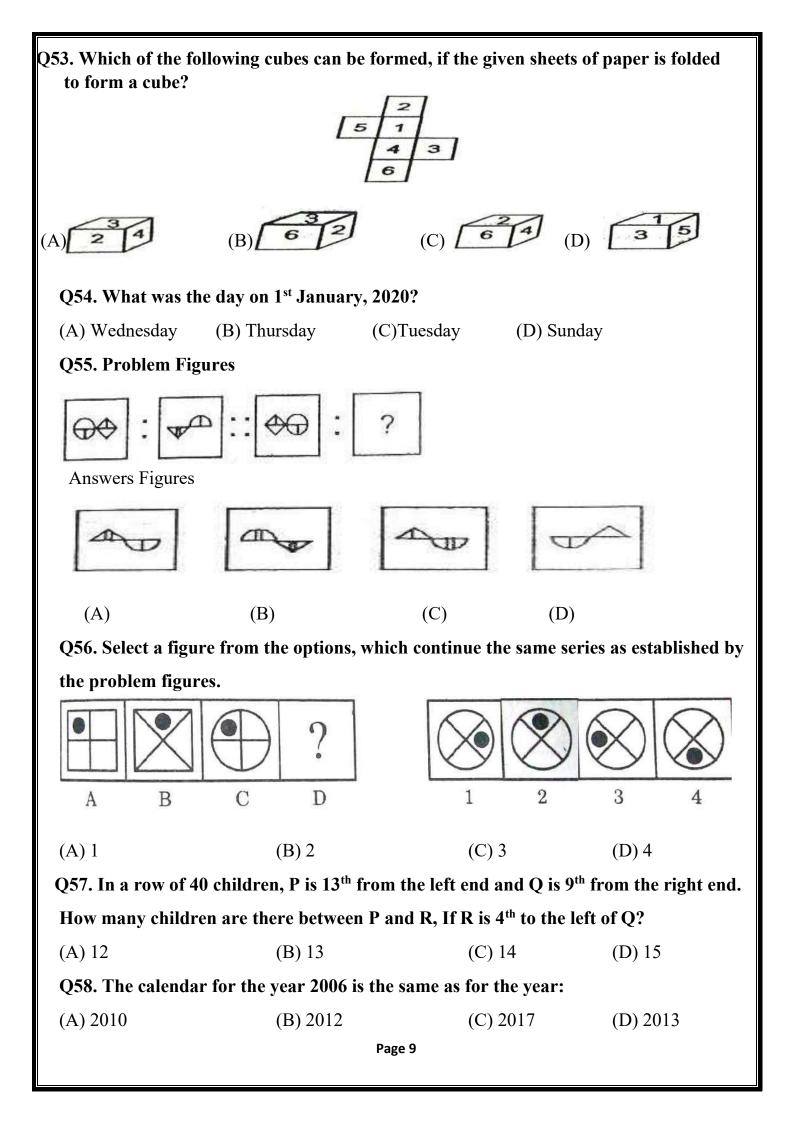
Q45. Refer to the given diagram of human male reproductive system and select the incorrect statement regarding parts X, Y and Z.

- (A) Z transfers sperms into the vagina of female during coitus.
- (B) Y is similar in function to ovaries of female.
- (C) X conducts sperms from testis to urethra.
- (D) Y lies within scrotum in the abdominal cavity.



APTITUDE (15)

Q46. Which option will replace the question mark?				
1, 6, 36, 240, 1960, ?				
(A) 19600	(B) 19660	(C) 36800	(D)35400	
Q47. Find the missing r	number, if same rule	is followed in all t	he three figures.	
7668	3 38 9	11 (?)) 9	
(A) 108	(B) 91	(C) 116	(D) 119	
Q48. Number of letters	in between adjacent	letters in the serie	es decrease by two,	
which of the following s	series observes this ru	ule?		
(A) FQWBG	(B) HQXCF	(C) TBINO	(D) XFMQU	
Q49. If FEED is coded	as 47 and TREE is co	oded as 91, then M	EET will be coded as:	
(A) 110	(B) 114	(C) 118	(D) 122	
Q50. A and B start walking in opposite direction. A walked 5 km, B walked 6 km. Thereafter, both turn to their right and walked 2 km. They turn to right again and walked 3 km, again turn to right and walked 2 km. How much distance apart are they from each other?				
(A) 2 km		(C) 3 km		
			ords. Establish the same	
-	e right pair and find	<u> </u>		
	logy: Birds::Ichthyol			
(A) Fish (B	3) Animals	(C) Algae	(D) Fungi	
Q52. Which of the following Venn-diagrams represents the relationship amongst.				
Batsman	n, Cricket, Stick			
(a) O	(b)	(c) O	(d)	



Q59. Rahul told Anand, "Yesterday I defeated the only brother of the daughter of my				
grandmother." Whom did Rahul defeat?				
(A) Son	(B) Father	(C) Brother	(D) Father-in-law	
Q60. If L stands for	+, M stands for -, N stand	ds for ×, P stands for	÷, then	
14N10L42P2M8=?				
(A)153	(B) 216	(C) 248	(D) 120	
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