

A Specially Designed Initiative
to Encourage Young Talent by



TALLENTEX 2018 : (08, October 2017)

PAPER CODE

A



CLASS - 5th (V)

Duration: 2 Hrs. | Maximum Marks : 320

Answer Sheet No.

T 6

Tallentex Roll No.

6

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

Things NOT ALLOWED in EXAM HALL : Blank Paper, clipboard, log table, slide rule, calculator, camera, mobile and any electronic or electrical gadget. If you are carrying any of these, then keep them at a place specified by invigilator at your own responsibility.

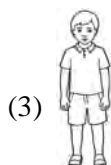
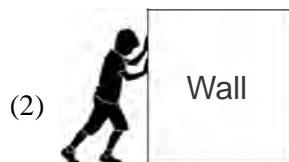
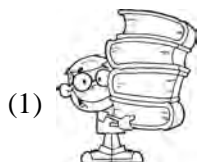
INSTRUCTIONS

1. This Booklet is your Question Paper. DO NOT break seal of Booklet until the invigilator instructs to do so.
2. Fill your TALLENTEx Roll No. & Answer Sheet No. in the space provided on the cover page.
3. Carefully fill your **PAPER CODE** and present **CLASS** in space provided (**Serial No. 6 & 12**) of optical response sheet.
4. Please make sure that paper you received is of your class only.
5. Please make sure that the **Paper Code** Printed on the **Test Booklet Cover Page** and **Inner Pages** are the same. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of Test Booklet.
6. The Answer Sheet is provided to you separately which is a machine readable Optical Response Sheet (ORS). You have to mark your answers in the ORS by darkening bubble, as per your answer choice, by using black or blue ball point pen.
7. After breaking the Question Paper seal, check there are **12 pages** in the booklet. This Question Paper contains 80 MCQs with 4 choices (Subjects: Physics: 12, Chemistry: 11, Biology: 12, Maths: 25 & Mental ability: 20).
8. Answer once marked by pen cannot be cancelled.
9. Each correct answer carries 4 marks. (**There is no negative marking**)
10. If you are found involved in cheating or disturbing others, then your ORS will be cancelled.
11. Do not put any stain on ORS and hand it over back properly to the invigilator.
12. You can take along the question paper after the test is over.

SECTION - A : PHYSICS

This section contains **12 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

1. If 10 gm of salt and 5 gm of sugar are completely dissolved in 50 gm of water, what is the total mass of the solution?
(1) 15 gm (2) 50 gm (3) 60 gm (4) 65 gm
2. A boy walks 5 km towards East. He now turns to his right and walks 2 km more. What is the total distance covered by him ?
(1) 5 km (2) 7 km (3) 2 km (4) 3 km
3. The planet which has two moons is
(1) Mercury (2) Venus (3) Earth (4) Mars
4. In which of the following cases, work is being done?



5. Which of the following sources of energy has not been shown in given figure?



- (1) Wind energy (2) Solar energy (3) Nuclear energy (4) Water energy
6. 1 km = _____ m
(1) 10 (2) 100 (3) 1000 (4) 10000

7. Four students volunteered to help a librarian move containers of library materials. The numbers in the bars show the mass of each container. The results for each student helper are shown in the table.

Helper	Result of Lifting Force
W	The container was raised 1 m to a shelf.
X	The container was raised 2.5 m to the top of a cabinet.
Y	The container was raised 0.5 m to a tabletop.
Z	The container was too heavy to lift even after four tries.

Based on this information, which student helper did not do any work on a container?

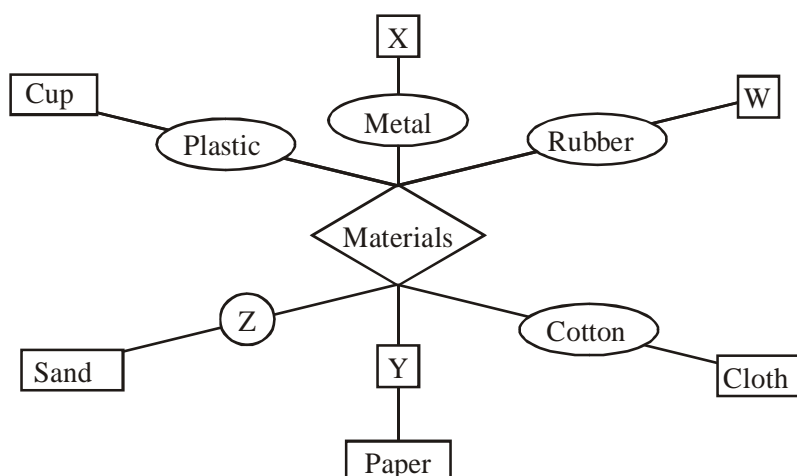
- (1) Helper W (2) Helper X (3) Helper Y (4) Helper Z
8. _____ season comes in between winter and summer-
- (1) Autumn (2) Spring (3) Rainy (4) None of these
9. The movement of earth on its axis is called ____ (i) ____ and movement of earth around sun is called ____ (ii) ____ .
- Choose the correct option to fill in the blanks.
- (1) (i) rotation, (ii) revolution (2) (i) revolution, (ii) rotation
 (3) (i) rotation, (ii) vibration (4) (i) vibration, (ii) rotation
10. Which of the following energy conversion is incorrect?
- (1) Electric Bulb → Electrical energy to light energy
 (2) Battery → Chemical energy to electrical energy
 (3) Photosynthesis → Chemical energy to light energy
 (4) Generator → Mechanical energy to electrical energy
11. What is the danger when there is a large amount of unstable snow on a steep mountain slope ?
- (1) Avalanche (2) Dense fog (3) Mud slide (4) Flood
12. Which of the following is not a unit of mass ?
- (1) Kilogram (2) Quintal (3) Pound (4) Mile

SECTION-B : CHEMISTRY

This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

13. Which is NOT a state of matter ?
- (1) Gelatinous (2) Solid (3) Liquid (4) Gas
14. Copper wire is often wrapped in plastic. Plastic material is a good
- (1) electromagnet (2) insulator (3) circuit (4) current
15. Which of the following is used to know how cold or hot the weather is ?
- (1) wind (2) precipitation (3) humidity (4) temperature

16. Granite is a hard material and forms from cooling of magma. Granite is a type of -
 (1) marble (2) igneous rock (3) volcanic dust (4) sedimentary rock
17. Continual process in which a rock is changed into an another rock is called
 (1) rock sedimentation (2) sorting of rocks (3) accumulation of rocks (4) rock cycle
18. Water vapour is the state of matter ?
 (1) solid (2) gaseous (3) liquid (4) all are correct
19. Study the given diagram and answer the following question.



Which of the following best represent W, X, Y and Z ?

- | W | X | Y | Z |
|--------------|-----------|----------|----------|
| (1) Rock | Iron | Wood | Book |
| (2) Eraser | Jewellery | Wood | Rock |
| (3) Umbrella | Mirror | Linen | Wood |
| (4) Polybags | Pen | Rock | Wood |
20. Wind speed is measured by
 (1) Thermometer (2) Anemometer
 (3) Barometer (4) Potometer
21. The substance in a rock that is of no use to us is called _____.
 (1) gangue (2) mineral (3) ore (4) metal
22. Condensation is :
 (1) conversion of solid into gas. (2) conversion of solid into liquid.
 (3) conversion gas into liquid. (4) conversion liquid into solid.
23. When solid is converted into liquid the process is called ?
 (1) Melting (2) Freezing (3) Boiling (4) None of these

SECTION-C : BIOLOGY

This section contains **12 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

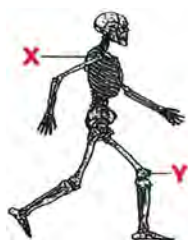
24. They do not have chlorophyll

- (1) Fungi (2) Mushroom (3) Both (1) and (2) (4) Algae

25. Which of the following are essential for body growth and formation of new cells?

- (1) Carbohydrates (2) Protein (3) Minerals (4) Vitamins

26. The types of joint at X and Y are



- (1) X = ball and socket, Y = hinge (2) X = hinge, Y = ball and socket
(3) X = ball and socket, Y = fixed (4) X = fixed, Y = hinge

27. Which of the following is the main role of flowers found in most flowering plants?

- (1) To take in air (2) To produce seeds
(3) To absorb nutrients (4) To protect the stem

28. Which of the following adaptations is likely to be found in palm trees?



- (1) It has flat green stem to store water and prepare food
(2) Stem is thin and flexible so that it can bend along with the water movement.
(3) Trees are normally cone-shaped and have needle-shaped leaves.
(4) Leaves have deeply incised or serrated margins to reduce the effect of wind.

29. Which of the following animal lay largest egg ?

- (1) Shark (2) Ostrich (3) Octopus (4) Elephant

30. Which one of the following plants has dark red leaves ?

- (1) Croton (2) Cactus (3) Mango (4) Dodder

31. The picture shows a red-eyed tree frog. These frogs are bright green with red eyes, blue stripes and orange feet. They live on trees in the rainforest and feed on small insects. Which one of the following adaptations helps it to feed ?



- (1) It has soft skin without scales.
 (2) It has a long sticky tongue.
 (3) It camouflages itself when sleeping by closing its bright eyes.
 (4) It camouflages itself when sleeping by tucking its feet beneath its body.
32. A carnivore with stripes on its body moves very fast while catching its prey. It is likely to be found in :
 (1) polar regions (2) tropical rainforests (3) oceans (4) deserts
33. Which one of the following gives birth to young ones ?



34. Which of these seeds is dispersed by explosion ?
 (1) Cotton (2) Madar (3) Castor (4) Xanthium
35. Which of the following adaptations is found in the desert plant shown below?



- (1) Flowers only open during the heat of the day
 (2) The leaves are modified to spines to prevent water loss
 (3) The stem becomes woody to stop animals from eating them
 (4) The broad leaves store water

SECTION-D : MATHEMATICS

This section contains **25 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

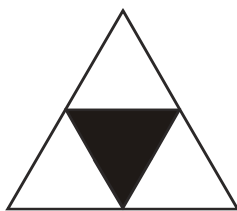
36. How many times does the digit '1' appear in number from 1 to 100 ?

- (1) 18 (2) 19 (3) 20 (4) 21

37. 76 is a factor of _____.

- (1) 228 (2) 196 (3) 1514 (4) 218

38. What fraction is shaded in the given figure ?



- (1) $\frac{1}{3}$ (2) $\frac{1}{2}$ (3) $\frac{1}{4}$ (4) None of these

39. The sum of place value of 5 and face value of 2 in 15028907 is _____.

- (1) 5,000,002 (2) 50,000,002 (3) 5,020,000 (4) 20,005

40. A full teapot can fill up 5 cups. How many cups can 3 such teapot fill ?

- (1) 15 (2) 16 (3) 18 (4) 20

41. If I am a six digit number.

- (i) Digit of lakhs place and hundreds place is the greatest digit.
 (ii) Place value and face value of the digit on thousands place is same.
 (iii) Digit on ten thousands place is double of digit on ones place.
 (iv) Digit on ones place is a prime number that is double of digit on tens place.

- (1) 940912 (2) 920942 (3) 910921 (4) 920912

42. Which of the following 3-D shapes has number of faces and number of vertices are equal?

- (1) Pyramid (2) Sphere (3) Prism (4) Cylinder

43. The number of prime factor for 2016 is

- (1) 8 (2) 3 (3) 4 (4) 7

44. What is the weight of the apple ?

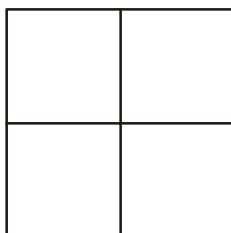


- (1) 250 g (2) 150 g (3) 75 g (4) 125 g

45. Place value of "0" in 36,04,85,593 is

- (1) ten lakhs (2) lakhs (3) zero (4) crores

46. The number of factors of 54 are
 (1) 6 (2) 8 (3) 2 (4) 10
47. If a line intersects two non-coinciding parallel lines, then we will get how many maximum number of point of intersection?
 (1) 0 (2) 1 (3) 2 (4) 4
48. Count the number of squares in the given figure.



- (1) 9 (2) 8 (3) 5 (4) 11
49. Find the perimeter of a rectangular field which is 72 m long and 68 m wide ?
 (1) 364 m (2) 280 m
 (3) 3640 m (4) 2800 m
50. String A is 42.8 m long. It is 13.68 m longer than string B. What is the length of string B ?
 (1) 56.48 m (2) 28.16 m
 (3) 29.12 m (4) 25.20 m
51. How many line segments are there in the given figure :

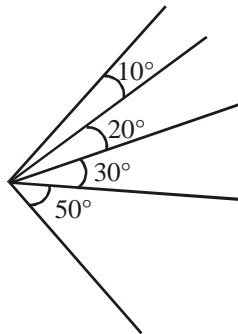


- (1) 3 (2) 4 (3) 5 (4) 6
52. HCF of 18, 27 and 45 is –
 (1) 18 (2) 27 (3) 45 (4) 9
53. A field is in the form of a rectangle $28 \text{ m} \times 8 \text{ m}$ in dimensions. Find the area available for grazing of cows.
 (1) 124 m^2 (2) 110 m^2
 (3) 220 m^2 (4) 224 m^2
54. A Dettol bottle contains 500 ml of Dettol. How much Dettol is contained in 12 dozen such bottles?
 (1) 70 litres (2) 60 litres
 (3) 72 litres (4) 84 litres
55. Three square tiles of side 5 cm are placed as given below. The perimeter of resultant figure (not up to the scale) is



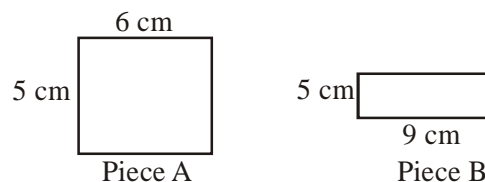
- (1) 75 cm (2) 20 cm
 (3) 50 cm (4) 40 cm

56. How many angles measures can be seen in the picture ?



- (1) 4 (2) 6 (3) 8 (4) 10

57. Parth and Amrita bought aam papad (dried mango slice) from a shop. Their pieces looked like these



Which size is smaller ?

- (1) Piece A (2) Piece B
(3) Both are equal (4) Cannot determine

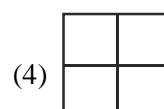
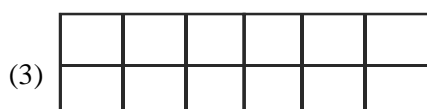
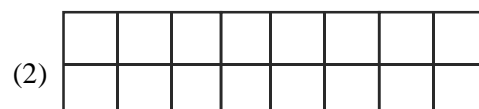
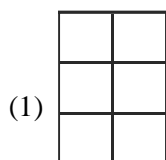
58. Standard form of $900000000 + 800000 + 50000 + 3000 + 60 + 5$ is

- (1) 900,00,85,363
(2) 9,85,03,363
(3) 90,08,53,363
(4) 90,08,53,065

59. When a square fold from its diagonal , then the new figure formed _____.

- (1) Circle (2) Rectangle
(3) Hexagon (4) Triangle

60. Which of these figure represents the area of 24 m^2 , if given that each block $\square = 2 \text{ m}^2$

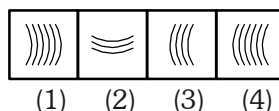
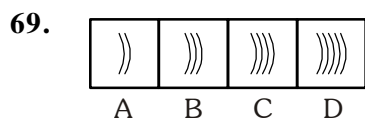
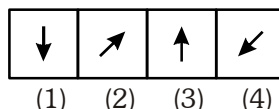
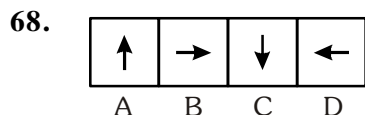


SECTION-E : MENTAL ABILITY

This section contains **20 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

61. Gaurav walks 20 meters towards North. He then turns left and walks 40 meters. He again turns left and walks 20 meters. Further, he moves 20 metres after turning to the right. How far is he from his original position :
- (1) 20 metres (2) 30 metres
(3) 60 metres (4) None of these
62. In the following question, arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence from the options given below.
- (a) Oversharing (b) Optics (c) Overworking
(d) Outermets (e) Omnishambles
- (1) a, b, c, d, e (2) c, e, a, b, d (3) e, b, d, a, c (4) c, a, b, e, d
63. A watch reads 03 : 00. If the minute hand points East, in what direction will the hour hand point:
- (1) South-East (2) South (3) North (4) North-West
64. In English alphabet series which letter is 8th to the left of 15th from the left end ?
- (1) E (2) F (3) G (4) H
65. Insert the missing number in the given series.
- 7, 9, 15, 33, 87, _____.
- (1) 239 (2) 249 (3) 259 (4) 269
66. A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?
- (1) West (2) South (3) North-East (4) South-West
67. If the letters in the word "CHIPMUNKS" rearranged in alphabetical order, which one will be exactly in the middle after the rearrangement ?
- (1) M (2) I (3) N (4) K

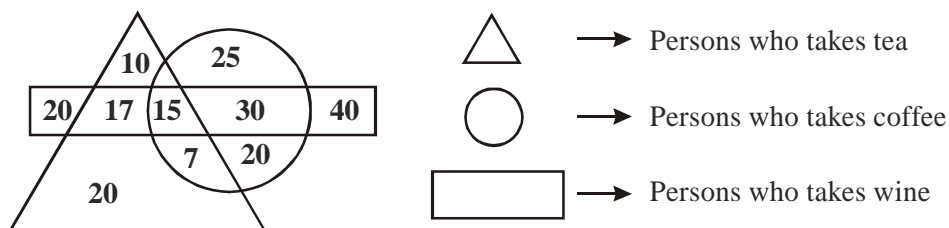
Direction : (68 & 69). Each of the following questions consists of four figures marked A, B, C and D called problem figures. Following by four other figures marked 1, 2, 3 and 4 called the answer figures. Select a figure from amongst the answer figures which will continue the same series.



70. Girish is fifth from the left and Prajawal is twelfth from the right end in a row of children. If Prajawal shifts by three places towards Girish, he becomes tenth from the left end. How many children are there in the row?

(1) 21 (2) 24 (3) 23 (4) 22

Directions for (71 & 72): Study the diagram given below and answer each of the following questions.

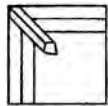


71. How many persons who take tea and wine but not coffee ?
 (1) 20 (2) 17 (3) 25 (4) 15
72. How many persons are there who take both tea and coffee but not wine ?
 (1) 22 (2) 17 (3) 7 (4) 20
73. If water is called black, black is called tree, tree is called blue, blue is called rain, rain is called pink and pink is called fish in a certain language, what is the colour of the sky called in that language ?
 (1) Blue (2) Fish (3) Rain (4) Pink
74. How many 5s are there in the following number sequence which are immediately preceded by 7 and immediately followed by 6?
 Terms : 7 5 5 9 4 5 7 6 4 5 9 8 7 5 6 7 6 4 3 2 5 6 7 8
 (1) 1 (2) 2 (3) 3 (4) 4
75. Choose the correct mirror image of the given figure.

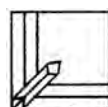


76. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to the group
 (1) Rose (2) Marigold (3) Lilly (4) Apple

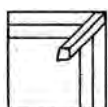
77. In the following question, a figure marked (X) is followed by four figures (1), (2), (3) and (4) which show that possible water image of figure (X). Choose one out of these four figures which shows the correct water image of the figure (X).



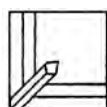
(X)



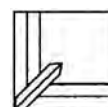
(1)



(2)



(3)



(4)

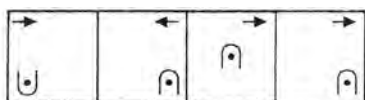
78. Choose the word which is different from the rest:-

(1) Kiwi (2) Eagle (3) Emu (4) Ostrich

79. In the following question, choose the correct mirror image from alternatives 1, 2, 3 and 4 of the figure (X).



(X)



(1) (2) (3) (4)

80. Find the water image of following figure ?



(1)



(2)



(3)



(4)

SPACE FOR ROUGH WORK

ANSWER KEY : 08-10-2017						CLASS – V						CODE : A			
Q.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	4	2	4	4	4	3	4	2	1	3	1	4	1	2	4
Q.No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	2	4	2	2	2	1	3	1	3	2	1	2	4	2	1
Q.No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	2	2	1	3	2	4	1	3	1	1	1	1	2	2	3
Q.No.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	2	3	3	2	3	4	4	4	3	4	4	1	4	4	3
Q.No.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Ans.	3	3	2	3	2	4	1	3	1	2	2	3	3	1	2
Q.No.	76	77	78	79	80										
Ans.	4	3	2	1	2										