

RPS GROUP OF SCHOOLS

ADMISSION- *Cum* -SCHOLARSHIP TEST

For Grade III to XI

Sunday, 1st January 2023

APPEARING FOR CLASS VIII

**SCHOLARSHIP ASPIRANTS TODAY
VICTORS IN LIFE TOMORROW !**

At **RPS** *Excellence is a* **HABIT**

NEET TOPPER

Above 600 Marks

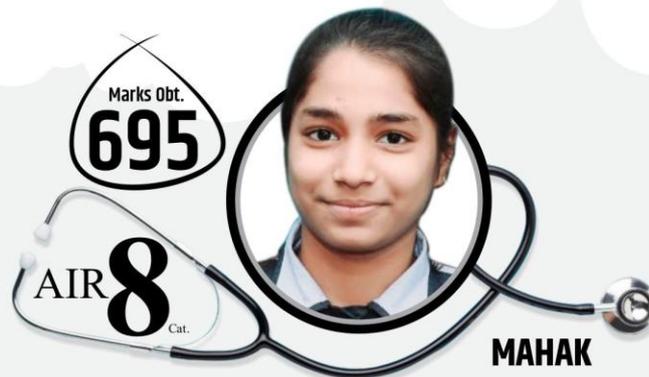
45⁺
STUDENTS

Above 550 Marks

91⁺
STUDENTS

Total
Qualifiers

405⁺
STUDENTS



IIT-JEE TOPPER



OUR RESULTS SPEAK LOUDER THAN WORDS

SESSION 2022-23





APPEARING FOR CLASS VIII

Science: 1-20

Maths: 21-40

Social Science: 41-60

English: 61-80

TIME: 90 Minutes

M.M. 80

Student's Name: Father's Name : Mobile No.:

Address

Present School:

General Instructions:

1. Duration of Test is 90 minutes and Question Paper contains 80 Questions with maximum 80 marks.
2. Use of gadgets is not allowed.
3. Student should abide by the instructions issued during the examination by the invigilator or the centre incharge.
4. Before attempting the question paper ensure that it contains all the pages and that no question is missing.
5. **There is No Negative marking.**
6. **Correct Method**

Wrong Method



Science (20 Marks)

Physics (07 Marks)

1. The good absorber of heat are –
(a) Non emitter (b) Good emitter (c) Poor emitter (d) Highly polished
2. Slope of velocity – time graph represents a quantity which has the unit
(a) m^2 (b) ms^{-2} (c) m^3 (d) ms^{-1}
3. Two cyclists, k km apart, and starting at the same time, would be together in r hours if they travelled in the same direction, but would pass each other in t hours if they travelled in opposite directions. The ratio of the speed of the faster cyclist to that of the slower is.
(a) $\frac{r+t}{r-t}$ (b) $\frac{r}{r-t}$ (c) $\frac{r+t}{r}$ (d) $\frac{r}{t}$

4. Match the following
- | | |
|-------------------------------|---|
| (i) Horse shoe magnet | (a) Holds the armature in place |
| (ii) Armature | (b) Electromagnet |
| (iii) Spring strip | (c) Passes electric current to the spring strip |
| (iv) Adjusting screw | (d) Fixed to the spring strip |
| (a) i -d, ii-a, iii- c, iv- b | (b) i-a, ii- c, iii- b, iv- b |
| (c) i- b, ii-d, iii-a, iv- c | (d) i- c, ii-b, iii-d, iv-a |
5. Arrange the following speeds in the decreasing order
- (A) A boy moving on a bicycle with a speed of 18 km/h
 (B) a fast runner running with a speed of 10 m/s
 (C) A scooter moving with a speed of 800 m/min.
- (a) $C > B > A$ (b) $B > C > A$ (c) $A > B > C$ (d) $C > A > B$
6. There is a limit on the current which can safely flow through a
- (a) Minimum, Building (b) Maximum, Building
 (c) Minimum, Circuit (d) Maximum, Circuit
7. How many images will be formed if two plane mirrors are fitted on adjacent wall and one mirror on roof ?
- (a) 2 (b) 5 (c) 7 (d) 10

Chemistry (07 Marks)

8. Study the reaction given below –
 Copper sulphate + Iron \rightarrow Iron sulphate + Copper
 What kind of change takes place in the given reaction ?
- (a) Chemical change (b) Physical change
 (c) biochemical (d) Both a and b
9. Which of the following is an antacid ?
- (a) $Mg(OH)_2$ (b) NaOH (c) H_2SO_4 (d) H_2O
10. What is the chemical formula of caustic soda ?
- (a) $Mg(OH)_2$ (b) KOH (c) $Ca(OH)_2$ (d) NaOH
11. Identify the only base which does not have a metal in its molecule.
- (a) NaOH (b) NH_4OH (c) $Mg(OH)_2$ (d) $Ca(OH)_2$
12. How are sea and Land breezes caused ?
- (a) through convection currents (b) through cyclones
 (c) through rain (d) through conduction
13. From where do the Monsoon winds come to India ?

- (a) Northeast (b) Northwest (c) Southeast (d) Southwest

14. Which of the following is used to disinfectant the clean water in a sewage treatment plant before releasing it into the distribution system.

- (a) Iodine (b) Ozone (c) Oxygen (d) All of these

Biology (06 Marks)

15 Which of the following options is correct with regard to blood circulation ?

(a) Lungs → Left ventricle → Left atrium → Body tissues → Right ventricle → Right atrium → Lungs

(b) Body tissues → Left ventricle → Left atrium → Lungs → Right ventricles → Right atrium → Body tissues.

(c) Body tissues → Left atrium → Left ventricle → Lungs → Right atrium → Right ventricle → Body tissues.

(d) Lungs → Left atrium → Left ventricle → Body tissues → Right atrium → Right ventricle → Lungs

16. Study the following features :

(i) Flowers are small and dull

(ii) Flowers do not produce nectar

(iii) Pollen grains are light weight

(iv) Stamens and stigmas are exposed

Above cited features are the characteristics of flowers in which pollination is brought about by the agency of

(a) wind

(b) bird

(c) insect

(d) all of these

17. Which of the following equations correctly represents the process of photosynthesis ?

(a) Carbon dioxide + Water $\xrightarrow[\text{chlorophyl}]{\text{sunlight}}$ carbohydrates + Proteins

(b) Carbon dioxide + Carbohydrates $\xrightarrow[\text{Chlorophyl}]{\text{sunlight}}$ oxygen + water

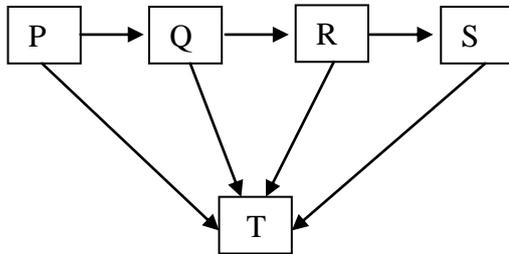
(c) Carbon dioxide + water $\xrightarrow[\text{Chlorophyl}]{\text{sunlight}}$ Carbohydrates + Oxygen

(d) Oxygen + water $\xrightarrow[\text{Chlorophyl}]{\text{sunlight}}$ carbon dioxide + Carbohydrates

18. In humans, the process of digestion begins in the **I** where food is broken down into small pieces by the teeth. The **II** in the mouth secrete saliva which contains an enzyme called **III**. This enzyme changes **IV** to sugars. Read the above paragraph and select the correct option for **I, II, III** and **IV**

| | I | II | III | IV |
|-----|---------------|-----------------|------------------|----------|
| (a) | Mouth | Tongue | Salivary gland | Starch |
| (b) | Buccal cavity | Salivary gland | Salivary amylase | Starch |
| (c) | Mouth | Salivary glands | Pepsin | Proteins |
| (d) | Stomach | gastric glands | pepsin | Proteins |

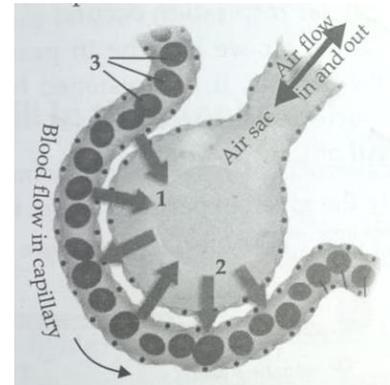
19. Refer to the given food chain



Identify P-T and select the incorrect statement.

- (a) All the organisms of the food chain depend on P directly or indirectly for food.
 - (b) Q and R in the given food chain are herbivore and carnivore respectively.
 - (c) T helps in keeping our environment clean and in Recycling of nutrients.
 - (d) S obtains its food directly from the plants and is called primary consumer.
20. Identify the labels (1, 2 and 3) in the given figure showing exchange of gases between alveoli and blood capillaries. Select the correct option.

| | 1 | 2 | 3 |
|-----|-----------------|-----------------|-----------------|
| (a) | CO ₂ | O ₂ | RBCs |
| (b) | O ₂ | CO ₂ | RBCs |
| (c) | RBCs | O ₂ | CO ₂ |
| (d) | CO ₂ | RBCs | O ₂ |



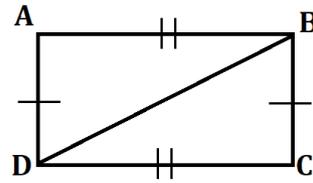
Mathematics (20 Marks)

21. If one angle measures 10° more than its complement, then the measure of the angle is
 (a) 40° (b) 55° (c) 35° (d) 50°
22. $\angle A$ and $\angle B$ are complementary angles. If $\angle A = (3x + 4)^{\circ}$ and $\angle B = (x + 18)^{\circ}$, then
 (a) $\angle A$ is acute (b) $\angle A$ is obtuse (c) $\angle A = \angle B$ (d) $\angle A < \angle B$
23. If the dimensions of a rectangle are 15 m and 8 m, then the length of a diagonal is
 (a) 7 m (b) 23 m (c) 17 m (d) 20 m
24. If in an isosceles triangle, each of the base angle is 40° , then the triangle is
 (a) Right angled triangle (b) Acute angled triangle

- (c) Obtuse angled triangle (d) Isosceles right angled triangle

25. In the adjoining figure equal sides are marked. Which of the following triangles are congruent ?

- (a) $\triangle ADB \cong \triangle DCB$
 (b) $\triangle ADB \cong \triangle CBD$
 (c) $\triangle BDA \cong \triangle BDC$
 (d) $\triangle DAB \cong \triangle DCB$



26. If $\angle D = \angle P$, $\angle E = \angle Q$ and $DE = PQ$, then $\triangle DEF \cong \triangle PQR$, by congruence rule.
 (a) SAS (b) ASA (c) SSS (d) RHS
27. If the area of a parallelogram is 54 cm^2 and the length of one side is 7.5 cm , then the corresponding height is
 (a) 7.2 cm (b) 14.4 cm (c) 3.6 cm (d) 13.5 cm
28. A piece of wire is bent in the shape of an equilateral triangle of side 4.4 cm . If this wire is rebent to form of a circle, find the radius and area of the circle.
 (a) 21 cm , 1386 cm^2 (b) 2.1 cm , 1386 cm^2
 (c) 21 cm , 13.86 cm^2 (d) 2.1 cm , 13.86 cm^2
29. The mean height of 10 students is 151.8 cm . Two more students of heights 157.6 cm and 154.4 cm join the group. What is the new mean height ?
 (a) 152.5 cm (b) 151.8 cm (c) 150 cm (d) 152 cm
30. The mean of 6 observations is 17.5 . If five of them are $14, 9, 23, 25$ and 10 , find the sixth observation.
 (a) 22 (b) 24 (c) 23 (d) 25
31. The length of a rectangle is $3a - 4b + 6c$ and the perimeter is $7a + 8b + 17c$, find breadth of rectangle.
 (a) $5a + 8b + 2c$ (b) $0.5a + 4b + 2.5c$
 (c) $0.5a + 8b + 2.5c$ (d) $0.5a + 18b + 3c$
32. What should be subtracted from $2x^2y - 3xy + 5xy^2 - 13$ to get $3x^2y + 4xy - 6xy^2 + 18$
 (a) $-x^2y + 7xy - 11xy^2 - 31$ (b) 0
 (c) $x^2y + 7xy + 11xy^2 + 31$ (d) $-x^2y - 7xy + 11xy^2 - 31$
33. A sum of Rs. 1600 gives a simple interest of Rs. 252 in 2 years and 4 months. The rate of interest per annum is :
 (a) 6% (b) $6\frac{1}{2}\%$ (c) $6\frac{1}{4}\%$ (d) $6\frac{3}{4}\%$
34. By selling a ceiling fan for Rs. 475 . A dealer loses 5% . To get a gain of 5% , he should sell the fan for

- (a) Rs. 575.00 (b) Rs. 522.50 (c) Rs. 525.00 (d) Rs. 498.75
35. Find x so that $\left(\frac{2}{3}\right)^{-2} \times \left(\frac{2}{3}\right)^{-9} = \left(\frac{2}{3}\right)^{2x+1}$
- (a) -6 (b) -8 (c) 6 (d) 8
36. Evaluate : $\left[\left(\frac{2}{3}\right)^{-1} \times \left(\frac{3}{4}\right)^{-1}\right]^{-1}$
- (a) 1 (b) $\frac{1}{2}$ (c) 2 (d) $\frac{3}{8}$
37. The solution of the equation $\frac{3x-1}{4} = \frac{2x+5}{3}$
- (a) 1 (b) -23 (c) -1 (d) 23
38. If the sum of two numbers is 39 and their difference is 15, then the numbers are
- (a) 17, 22 (b) 27, 12 (c) 26, 13 (d) 28, 11
39. Find the value of $\left(\frac{2}{3} \times \frac{15}{-16}\right) - \left(\frac{7}{12} \times \frac{-24}{35}\right)$
- (a) $\frac{9}{40}$ (b) $\frac{41}{40}$ (c) $\frac{-9}{40}$ (d) $\frac{-41}{40}$
40. The difference between the greatest and the least of $\frac{-5}{9}, \frac{2}{9}, \frac{-4}{9}$ is
- (a) $\frac{-1}{3}$ (b) $\frac{-2}{9}$ (c) -1 (d) $\frac{7}{9}$

Social Science (20 Marks)

41. The historical works written by the Ahoms were known as
- (a) Khels (b) Buranjis (c) Akbarnama (d) Garha Katanga
42. Who was the saint of Virashaivism movement ?
- (a) Tulsidas (b) Surdas (c) Basavanna (d) Ramanuja
43. Who said "They are vaishnavas who understand the pain of others"?
- (a) Narsi Mehta (b) Mirabai (c) Shankara (d) Kabir
44. Who wrote 'Kitab -ul-Hind' ?
- (a) Minaj -i-siraj (b) Abul fazal (c) Amir Khusrau (d) Al-Biruni
45. Who said "It is disgraceful to live at the cost of one's self -respect. Self respect is the most vital factor in life".
- (a) B. R Ambedkar (b) Jawaharlal Nehru

- (c) Mahatma Gandhi (d) Sarojini Naidu
46. Whose autobiography is 'Amar Jiban' ?
 (a) Ramabai (b) Rashsundari Devi
 (c) Rokeya Sakhawat Hossain (d) None of these
47. Who is the head of a state government ?
 (a) President (b) Prime Minister (c) Governor (d) None of these
48. Fossils are found in rocks.
 (a) Metamorphic (b) Sedimentary (c) Igneous (d) All of above
49. Which of the following is a cold ocean current ?
 (a) The Labrador (b) Gulf stream (c) Kuroshio (d) Auglhas
50. is a seasonal movement of people.
 (a) Regional (b) Transhumance (c) waterways (d) Eskimos
51. Who was the founder of the Chola dynasty ?
 (a) Vijayalaya (b) Harshavardhana (c) Shri satakarni (d) None of these
52. By which name was Rajasthan known in the nineteenth century ?
 (a) Raj Bhoomi (b) Raj Gharana (c) Rajputana (d) Ran Bhoomi
53. When was the Third Battle of Panipat fought ?
 (a) 1507 (b) 1556 (c) 1701 (d) 1761
54. Who composed 'Ramcharitmanas' ?
 (a) Namdav (b) Tulsidas (c) Surdas (d) Kabir
55. Which book did Omprakash Valmiki write ?
 (a) Sangam literature (b) Joothan
 (c) Lilatilakam (d) All the above
56. In which state is Erode cloth market situated ?
 (a) Haryana (b) Tamil Nadu (c) Madhya Pradesh (d) West Bengal
57. What is the minimum age to become the member of Legislative Assembly ?
 (a) 18 (b) 20 (c) 21 (d) 25
58. The features of the desert is/are –
 (a) Dry climate (b) Extreme temperature
 (c) Scanty Vegetation (d) All the above
59. The region located between the Tropic of Cancer and Tropic of Capricorn is called –
 (a) Tropical region (b) Temperate region
 (c) Cold region (d) Dry region
60. All type of weather phenomenas occur in –
 (a) Troposphere (b) Stratosphere (c) Mesosphere (d) Thermosphere

English (20 Marks)

61. Mohini, book you had borrowed, has come to take it.
(a) who (b) whom (c) that (d) whose
62. I went to hospital for treatment of chronic cough.
(a) a (b) an (c) the (d) No article
63. This is eucalyptus tree.
(a) a (b) an (c) the (d) No article
64. **All** that glitters is not gold. (Identify the underlined word)
(a) Noun (b) Pronoun (c) Adjective (d) Adverb
65. What is the superlative degree of 'Perfect'.
(a) Perfectest (b) The most perfect
(c) Perfecter (d) Does not have superlative form
66. The woman **is** very attractive. (State the type of verb.)
(a) Lexical verb (b) Auxiliary verb (c) Non- finite verb (d) Helping verb
67. I, who poor, cannot afford an android phone.
(a) are (b) is (c) am (d) has
68. Mrs. Shalini yoga for many years.
(a) is teaching (b) was teaching (c) has been teaching (d) teaches
69. that he were here!
(a) Should (b) Would (c) Could (d) May
70. Mother said to Rosy, "How beautifully you sang!"
(a) Mother exclaimed with great delight that how beautifully you sang.
(b) Mother exclaimed with great delight whether how beautifully you sang.
(c) Mother said to Rosy that she sings beautifully.
(d) Mother exclaimed with great delight that Rosy had sung beautifully.
71. **None** of these workers is honest. (Identify the underlined word)
(a) Noun (b) Pronoun (c) Adjective (d) Adverb
72. I have hardly knowledge of her activities.
(a) some (b) much (c) many (d) any
73. What is the comparative degree of 'Complete' ?
(a) More complete (b) Most complete
(c) Completer (d) No comparative degree
74. One of my cousins chess very well.
(a) plays (b) play (c) is play (d) none of these

75. Either he or I wrong.
(a) is (b) are (c) am (d) none of these
76. Water at zero degree Celsius.
(a) freeze (b) freezes (c) freezed (d) frozen
77. I just cooking.
(a) am finishing (b) have finished (c) has finished (d) have finish
78. I do not like her. (change the voice.)
(a) She did not liked by me. (b) She do not liked by me.
(c) She does not liked by me . (d) She is not liked by me.
79. Uneasy lies the head that wears a crown. (State the type of underlined clause.)
(a) Noun clause (b) Adjective clause
(c) Main clause (d) Adverb clause
80. Choose the correct spelling.
(a) Acquiatance (b) Acquiantance (c) Acquaintance (d) Acquaintance

(Space for rough work)

(Space for rough work)

THANK YOU FOR BELIEVING IN US!

**X CLASS
TOPPER**



VINAYAK

**99.2% IN CLASS X
CBSE BOARD EXAMINATION 2022**

**XII CLASS
TOPPER**



SANYAM BANSAL

**99.8% IN CLASS XII
CBSE BOARD EXAMINATION 2022**

SANYAM BANSAL

**1ST
RANK**

**1ST RANK, INTERNATIONAL COMMERCE
OLYMPIAD, CTF, DELHI**

**1ST RANK- ICAL, COMMERCE WIZARD
(REWARDED WITH RS. 1 LAC BY THE GOVT. OF INDIA)**

1ST RANK (STATE)-STSE, RAJASTHAN

Class X-2022



**TOTAL
MERITS
2151**

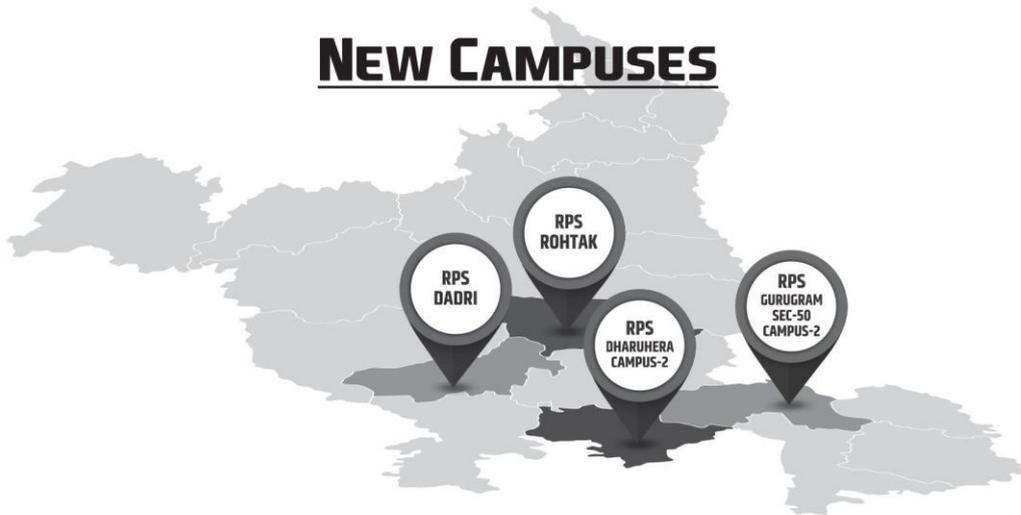
Class XII-2022



**TOTAL
MERITS
1887**

WE ARE SPREADING OUR WINGS

NEW CAMPUSES



New Campuses

Dharuhera Campus -2 Ph.: 9467064534 | **Rohtak** Ph.: 7419998800 | **Dadri** Ph.: 8222048283, 84 | **Gurugram Sec-50 Campus 2:** 8409989898

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