



RPS
GROUP OF SCHOOLS
under the aegis of RPS Education Society, M/Garh



BRITISH
COUNCIL



SAMPLE PAPER

APPEARING FOR CLASS IX

English: 1-20

Physics: 21-30

Chemistry: 31-40

Biology: 41-50

Mathematics: 51-70

Social Science: 71-90

TIME: 1½ hour

M.M. 90

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

Address

Present School:

General Instructions:

1. Duration of Test is 1½ hour and Question Paper contains 90 Questions with maximum 90 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 ¼ Negative marking.

Correct Method



Wrong Method



English (20 Marks)

Read the following questions and choose the most appropriate option:

1. She _____ the book by the time the author attends the event.
(a) will have finished (b) finished (c) has finished (d) finishes
2. I _____ to that city several times, and each visit _____ a unique experience.
(a) have been, has (b) go, was (c) went, is (d) will go, will be
3. The chef prepares a delicious meal. (change voice)
(a) A delicious meal was prepared by the chef.
(b) A delicious meal is prepared by the chef.
(c) A delicious meal prepares the chef.
(d) A delicious meal will be prepared by the chef.
4. They have heard the news on the radio. (change voice)
(a) The news has been heard by them on the radio.
(b) The news have heard by them on the radio.
(c) The news is heard by them on the radio.
(d) The news will be heard by them on the radio.
5. I _____ like to visit Paris one day.
(a) can (b) should (c) must (d) would
6. They _____ have gone home by now; the event is over.
(a) could (b) must (c) can (d) should
7. The members of Student Council Committee appointed her _____ Head Girl of the school.
(a) a (b) the (c) an (d) none of the above
8. Have you ever visited _____ historical building?
(a) any (b) either (c) many (d) some
9. You like ice cream, ____?
(a) don't you (b) do you (c) you do (d) you don't
10. She won't be late, ____?
(a) will she (b) won't she (c) she will (d) she won't
11. My cat prefers _____ near the window.
(a) sitting (b) sits (c) to sit (d) sit
12. _____ a loud sound, the students rushed out of the auditorium.
(a) Hearing (b) Hear (c) To hear (d) Heard
13. The police constable saw a thief _____ on a bicycle.
(a) escaping (b) having escaped (c) to escape (d) escaped
14. I hate _____ money from other people.

- (a) to borrow (b) borrow
(c) having borrowed (d) borrowing

Identify the following:

15. Your statement **that you lost the money** cannot be believed.
(a) Adverb clause (b) Relative clause
(c) Adjective clause (d) Noun clause
16. The students, **who completed their assignments early**, received prize.
(a) Phrase (b) Noun Clause (c) Adjective Clause (d) Adverbial Clause
17. **After the rain stopped**, we went outside to enjoy the fresh air.
(a) Phrase (b) Noun Clause (c) Adjective Clause (d) Adverb Clause
18. **In the morning**, the children played happily in the park.
(a) Phrase (b) Noun Clause (c) Adjective Clause (d) Adverbial Clause
19. The treasure hidden **under the old tree** was discovered by the explorers.
(a) Prepositional Phrase (b) Gerund Phrase
(c) Appositive Phrase (d) Infinitive Phrase
20. The girl **with the red hat** is my sister.
(a) Adjective phrase (b) Adverbial phrase
(c) Noun phrase (d) Prepositional phrase

Physics (10 Marks)

21. A body is moving with certain velocity towards right. A force of 5 N is applied on it towards right and a force of 6 N is applied on it towards left then:
(a) Speed of body increases towards right. (b) Speed of body increases towards left.
(c) Speed of body remains the same. (d) Speed of body decreases.
22. If a rock is brought from the surface of the moon:
(a) Its mass will change (b) Its weight will change, but not mass
(c) Both mass and weight will change (d) Its mass and weight will remain the same
23. 1 Newton is a force which produces:
(a) An acceleration of 1 ms^{-2} in a body of mass 1g.
(b) An acceleration of 1 ms^{-2} in a body of mass 1kg.
(c) An acceleration of 1 cms^{-2} in a body of mass 1kg.
(d) An acceleration of 1 ms^{-2} in a body of mass 10g.
24. How does pressure vary as we come from mountain top to sea level?
(a) Increases (b) Decreases (c) Remains same (d) Depends on weather
25. Pressure exerted by liquids depend on the_____.

- (a) Shape of the container (b) Size of the container
(c) Depth of the container (d) Colour of the container
26. We are able to see object because:
(a) they absorb light (b) they reflect light
(c) total internal reflection takes place in them (d) all the light is refracted through them
27. Plane mirrors are arranged parallel to each other to get:
(a) a single image (b) two images
(c) a large number of reflected images (d) no image
28. When the angle between two plane mirrors is 60° , how many multiple images will be formed by the mirrors?
(a) 5 (b) 6 (c) 7 (d) 8
29. Which of the following statements is true?
(a) The angle of incidence is twice the angle of reflection.
(b) The incidence ray, the reflected ray and the normal drawn at the point of incidence lie in the same plane.
(c) Some types of virtual images can be caught on the screens.
(d) A convex mirror forms real image
30. When the distance between the object and the plane mirror increases:
(a) the image remains same
(b) the size of the image will become less than the size of the object
(c) the distance between the image and the plane mirror increases
(d) the distance between the image and the plane mirror decreases

Chemistry (10 Marks)

31. Which of the following four persons will stand the minimum risk of getting struck by lightning?
(a) A person holding umbrella. (b) A person squatting low on the ground.
(c) A person riding a bicycle. (d) A person standing in an open field.
32. Which form of energy does lightning produce?
(a) light and heat (b) light and potential energy
(c) light and wind energy (d) light and sound energy
33. The point on the surface of the earth vertically above the point of origin of the earthquake is
(a) epicenter (b) fault (c) hypocenter (d) seismic
34. On which of the following scales is the magnitude of an earthquake measured?
(a) Celsius (b) Richter (c) Fahrenheit (d) Both (a) and (b)
35. What is the purpose of an electroscope?

- (a) To detect and test small electric charges
 - (b) To calculate the amount of electric charge flowing through the conductor
 - (c) To find out the presence of antimatter
 - (d) To test the presence of magnetic field
36. Which of the following can't act as an electrolyte?
- (a) Sodium chloride
 - (b) Magnesium chloride
 - (c) Pure water
 - (d) Calcium chloride
37. A bulb glows when electric current passes through it, because of_____.
- (a) heating effect of the current
 - (b) magnetic effect of the current
 - (c) both a & b
 - (d) none of the above
38. If the gap in an electric circuit is filled with a liquid, the current in the circuit_____.
- (a) always flow
 - (b) never flows
 - (c) flows in some cases and not in others
 - (d) flows only in case of distilled water
39. Which of the following energy is used to decompose water into its elements?
- (a) Heat energy
 - (b) Light energy
 - (c) Chemical energy
 - (d) Electrical energy
40. In the process of electrolysis, the current is carried out inside the electrolyte by_____.
- (a) electron
 - (b) atoms
 - (c) positive and negative ions
 - (d) all of the above.

Biology (15 Marks)

41. The plants found in a particular area are termed as _____.
- (a) fauna
 - (b) species
 - (c) flora
 - (d) All of them
42. Match the following and choose the correct option.
- | Column-A | Column-B |
|--|---------------------|
| (I) Giant squirrel | (a) Pachmarhi |
| (II) Record of endangered plants and animals | (b) extinct species |
| (III) Wild life sanctuary | (c) Endemic species |
| (IV) Bird Sanctuary | (d) Bharatpur |
| | (e) Red Data Book |
- (a) I-C, II-b, III-a, IV-d
 - (b) I-b, II-e, III-a, IV-a
 - (c) I-c, II-e, III-a, IV-d
 - (d) I-a, II-c, III-d, IV-b
43. Animals whose numbers are diminishing to such a level that they might face extinction are called _____ animals.

(a) endemic (b) extinct (c) endangered (d) conserved

44. Name two endemic plant species of pachmarhi
 (a) sal and wild mango (b) bamboo and sal
 (c) fern and wild mango (d) bamboo and fern
45. Rock shelter the evidences of pre-historic human life found in _____.
 (a) Satpura National Park (b) Bhartpur Sanctuary
 (c) Nanda Devi National Park (d) All of them
46. The type of reproduction in which only single parent is involved.
 (a) Asexual reproduction (b) sexual reproduction
 (c) Both 'a' and 'b' (d) None of these
47. Internal fertilization occur
 (a) inside male body (b) in female body
 (c) outside male body (d) outside female body
48. The number of nuclei present in zygote.
 (a) one (b) two (c) three (d) None of these
49. Which honey bee lay eggs in honey comb?
 (a) Worker (b) Drone (c) Queen bee (d) All of these
50. In IVF the complete development take place in _____.
 (a) test tube (b) fallopian tube (c) uterus (d) ovary

Mathematics (25 Marks)

51. Simplify
$$\frac{\left[\frac{2}{3} \times \left(\frac{-5}{4}\right)\right] + \left[\left(\frac{-10}{3}\right) \times \frac{5}{2}\right] - \left[\left(\frac{-16}{3}\right) \times \left(\frac{-55}{32}\right)\right]}{\frac{3}{2} \times \left[\left(\frac{-9}{14}\right) \times \left(\frac{-1}{7}\right)\right]}$$
- (a) $\frac{1082}{81}$ (b) $\frac{-1082}{81}$ (c) $-133\frac{7}{81}$ (d) $133\frac{7}{81}$
52. If $\sqrt{5} = 2.236$, then the value of $\frac{\sqrt{5}}{2} - \frac{10}{\sqrt{5}} + \sqrt{125}$ is equal to
 (a) 5.59 (b) 7.826 (c) 8.944 (d) 10.062
53. If $2^x = 4^y = 8^z$ and $xyz = 288$, then $\frac{1}{2x} + \frac{1}{4y} + \frac{1}{8z}$ equals
 (a) $\frac{11}{8}$ (b) $\frac{11}{24}$ (c) $\frac{11}{48}$ (d) $\frac{11}{96}$
54. The difference between simple and compound interest on a certain sum for 2 years at 5 % per annum compounded annually is Rs. 75 find the sum

- (a) Rs. 40000 (b) Rs. 36000 (c) Rs. 45000 (d) Rs. 30000

55. Solve for x $\frac{x+9}{28} + \frac{x-4}{3} = \frac{5x-32}{9} - \frac{2x-3}{35}$

- (a) 19 (b) -19 (c) 29 (d) -29

56. Three spherical balls of radius 1 cm, 2cm and 3 cm are melted to form a single spherical ball in the process, the material loss was 25 %. The radius of the new ball is

- (a) 5 cm (b) 3.5 cm (c) 6 cm (d) 3 cm

57. Express $\left[\left(2^{\frac{1}{2}} \times 4^{\frac{3}{4}} \times 8^{\frac{5}{6}} \times 16^{\frac{7}{8}} \times 32^{\frac{9}{10}} \right)^4 \right]^{\frac{8}{25}}$ as an integers

- (a) 5^{15} (b) 2^{15} (c) 2^{16} (d) 16^2

58. $x^9 - x$ is having

- (a) 5 factors (b) 4 factors (c) 2 factors (d) none of these

59. Twice the speed of a boat downstream is equal to thrice the speed upstream. The ratio of its speed in still water to its speed in current is

- (a) 1 : 5 (b) 1 : 3 (c) 5 : 1 (d) 2 : 3

60. A square and a regular hexagon have equal perimeters. The areas are in the ratio.

- (a) 2 : 1 (b) $2\sqrt{3}:1$ (c) $\sqrt{3}:2$ (d) 3 : 2

61. The sum of length, breadth and depth of a cuboid is 19 cm and the length of its diagonal is 11 cm. Find total surface area of cuboid.

- (a) 361 cm^2 (b) 240 cm^2 (c) 209 cm^2 (d) 121 cm^2

62. The empirical relationship between mean, median and mode is

- (a) Mean > Median > Mode (b) Mean = Median = Mode
(c) Mode - Mean = 3 (Median - Mean) (d) Mean - Mode = 3 (Mean - Median)

63. In a single throw of two dice, what is the probability of getting a total of 11.

- (a) $\frac{1}{9}$ (b) $\frac{1}{18}$ (c) $\frac{1}{12}$ (d) $\frac{35}{36}$

64. If $(\sqrt{3})^{x+y} = 9$ and $(\sqrt{2})^{x-y} = 32$, then $2x + y$ is

- (a) 1 (b) 0 (c) 17 (d) 11

65. The quadrilateral formed by the points $(-1, -2)$ $(1, 0)$, $(-1, 2)$ and $(-3, 0)$ is a

- (a) Rectangle (b) Square (c) Rhombus (d) None of these

66. A train passes two bridges of lengths 800m and 400 m in 100 seconds and 60 seconds respectively. The length of the train is

- (a) 80 m (b) 90 m (c) 200 m (d) 150 m

67. If the diameter of base of a right circular cylinder is decreased by 10 %, then volume of cylinder remains the same. Find the percentage increase in height.

- (a) 20 % (b) 23.46 % (c) 15 % (d) 20.54 %
68. Given $5A9 + 3B7 + 3C8 = 1114$, then the maximum value of C is
 (a) 5 (b) 7 (c) 8 (d) none of these
69. $6\sqrt{5}x^2 - 2x - 4\sqrt{5}$ is equal to
 (a) $(\sqrt{5}x - 2)(6x + 2\sqrt{5})$ (b) $(\sqrt{5}x + 2)(6x + 2\sqrt{5})$
 (c) $(\sqrt{5}x + 2)(6x - 2\sqrt{5})$ (d) $(\sqrt{5}x - 2)(6x - 2\sqrt{5})$
70. Select the incorrect match of given solids with the product of their number of faces and vertices.
 (a) Rectangular pyramid – 25
 (b) Triangular prism – 30
 (c) Regular Octahedron – 48
 (d) Triangular pyramid – 18

Social Science (20 Marks)

71. _____ was the first Governor General of Bengal.
 (a) Lord Dalhousie (b) Lord Canning
 (c) Warren Hastings (d) Lord William Bentinck
72. Name the three volume work of James Mill, the Scottish economist and philosopher.
 (a) Glimpses of India (b) The History of British India
 (c) An ancient History of India (d) Glimpses of British History
73. Portugese were first to discover sea route to India in ____
 (a) 1490 (b) 1496 (c) 1498 (d) 1500
74. Richard Wellsely was Governor General of Bengal from
 (a) 1798-1805 (b) 1790-95 (c) 1766-1770 (d) 1775-1780
75. Under Permanent Settlement, Rajas and Talukdars were recognised as
 (a) Zamindars (b) Kings (c) Diwans (d) Peasants
76. Which one is the unique nature of Indian secularism?
 (a) Indian secularism, the state protects the religious freedom of individuals by maintaining a separation from religion.
 (b) Indian secularism, State maintain both, separation as well as intervenes in religion.
 (c) Both A and B
 (d) None of the above
77. Which of the following is/are key features of the Indian constitution?
 1. Federalism

2. Parliamentary form of government
 3. Separation of power between the Executive, Legislative, and Judiciary.
 4. Our Constitution guarantees the rights of individuals against the State as well as against other individuals. Our constitution provides 6 types of Fundamental Rights.
 5. Secularism
 - (a) 1, 2 and 4
 - (b) 1, 2, 4 and 5
 - (c) 1, 3, 4 and 5
 - (d) 1, 2, 3, 4 and 5

78. What is Zero Hour?

 - (a) Begins at 2 o'clock
 - (b) Begins at 12 o'clock
 - (c) Begins at 0 o'clock
 - (d) None of these

79. Which is an important way to control the executive in Parliament?

 - (a) Assembly
 - (b) Zero hour
 - (c) Question hour
 - (d) none of these

80. The Vernacular Press Act was enacted in

 - (a) 1840
 - (b) 1857
 - (c) 1878
 - (d) 1890

81. The capacity to act independently without outside interference is termed as.

 - (a) Socialist
 - (b) Democratic
 - (c) Publicist
 - (d) Sovereign

82. The Consumer Protection Act came into effect.

 - (a) 1972
 - (b) 2005
 - (c) 1984
 - (d) 1986

83. Who established Natal Congress?

 - (a) Jawaharlal Nehru
 - (b) Mahatma Gandhi
 - (c) Balgangadhar Tilak
 - (d) Lala Lajpat Rai

84. Second World War ended in

 - (a) 1910
 - (b) 1920
 - (c) 1945
 - (d) 1947

85. Marathi newspaper 'Kesari' was edited by

 - (a) Lala Lajpat Rai
 - (b) Balgangadhar Tilak
 - (c) Chitta Ranjan Das
 - (d) Sarojini Naidu

86. Which one of the following is a Fundamental Right?

 - (a) Right to Freedom of Religion
 - (b) Right to Property
 - (c) Right to Work
 - (d) All of these

87. The rights provided by Constitution are called _____.

 - (a) Governmental Rights
 - (b) Optional Rights
 - (c) Economic Rights
 - (d) Fundamental Rights

88. Bengal was divided as a result of:-

 - (a) Do or die
 - (b) Divide & rule
 - (c) Both (a) & (b)
 - (d) None of these

89. Muslim league was founded in the year

 - (a) 1939
 - (b) 1906
 - (c) 1945
 - (d) 1946

90. Constitution was made in

(a) 3 years 11 months 18 days

(b) 1 years 11 months 18 days

(c) 2 years 11 months 18 days

(d) None of these

(Space for rough work)