

विद्यया कं क्षेत्र में सबसे आगे...
RPS
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BRITISH COUNCIL
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RPS 3rd OLYMPIAD 2022
All India Online & Offline Mega Event
Golden opportunity to win **400 Prizes**

PHASE-1 SUNDAY
13 FEBRUARY
1 to X
09:00 AM onwards (Online)

SPORTS KIT

RPSOLYMPIAD-2022

CLASS-7th

M.M. : 60**Time : 60 Mins.****English (15 Marks)**

1. Choose the correct sentence.

- a) Rahul and his friends is also invited to the party.
- b) Rahul and his friends has also invited to the party.
- c) Rahul and his friends were also invited to the party.
- d) Rahul and his friends was also invited to the party.

Direction (Q2-3) A sentence has been given in Direct/Indirect speech. Out of the four options, select the one which best expresses the same sentence in Direct/Indirect speech.

2. Kiran asked me, "Did you see the cricket match on television last night?"

- a) Kiran asked my whether I saw the cricket match the earlier night.
- b) Kiran asked me whether I had seen the cricket match on television the previous night.
- c) Kiran asked me whether you had seen the cricket match on television next night.
- d) Kiran asked you whether I had seen the movie on television last night.

3. He said," Be quite and listen to my words."

- a) He urged them to be quite and listen to his words.
- b) He urged them and said be quite and listen to his words.
- c) He urged they should be quite and listen to his words.
- d) He urged you should be quite and listen to his words.

4. Fill in the blank with suitable question tag:

She is not a liar,.....

- a) does she?
- b) doesn't she?
- c) isn't she?
- d) is she?

Direction (Q5-6) A sentence has been given in Active voice/Passive voice. Out of the four options, select the one which best expresses the same sentence in Active/Passive voice.

5. The injured _____ to the hospital in an ambulance.

- a) were taking
- b) was taking
- c) were taken
- d) have taken

6. The police will have filed a case.

- a) A case will have filed by the police.
- b) A case have been filed by the police.
- c) A case will have been filed by the police.
- d) A case would have been filed by the police.

7. I _____ her for several years.

- a) have known
- b) has known
- c) know
- d) knew

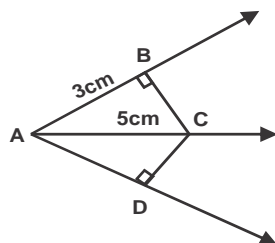
8. Identify the tense used in the given sentence. "She has been calling me for past one week."

- a) Present Indefinite Tense
- b) Past Indefinite Tense
- c) Past Perfect Continuous Tense
- d) Present Perfect Continuous Tense

9. Choose the correct option:
- a) I did not stole his purse. b) I did not steal his purse.
c) I does not steal his purse. d) I do not stolen his purse.
10. The puppy looked at **himself** in the mirror. Identify the kind of the *italicised* word in the sentence.
- a) Demonstrative Pronoun b) Relative Pronoun
c) Interrogative pronoun d) Reflexive Pronoun
11. _____ I hear someone whispering my name.
- a) Hush! b) Oh! c) Yay! d) Wow!
12. We saw _____ animals at the zoo.
- a) much b) many c) more d) most
13. One of the students _____ talking.
- a) were b) are c) has d) was
14. He is too _____ to be taught.
- a) intelligent b) more intelligent c) most intelligent d) none of these
15. Pay attention _____ what I say.
- a) at b) to c) by d) on

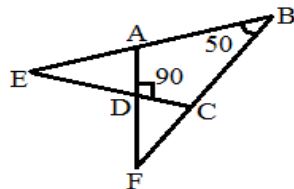
Mathematics (15 Marks)

16. Length of a side of a square inscribed in a circle is $\sqrt{2}a$ units. The circumference of the circle is _____.
- a) πa units b) $2 \pi a$ units c) $4 \pi a$ units d) $\frac{2a}{\pi}$ units
17. Of the three numbers, second is twice the first and is also thrice the third. If average of the three numbers is 44, find the largest number.
- a) 36 b) 48 c) 64 d) 72
18. In given figure, if $\angle BAC = \angle DCA$, $AB=3\text{cm}$ and $AC=5\text{cm}$, then $CD=?$



- a) 2cm b) 3cm c) 4cm d) 5cm
19. Choose the rational number whose numerator is $4 \times (-7)$ and denominator is $(3 - 7) \times (15 - 11)$.
- a) $\frac{16}{28}$ b) $\frac{8}{13}$ c) $\frac{7}{4}$ d) $\frac{-28}{16}$

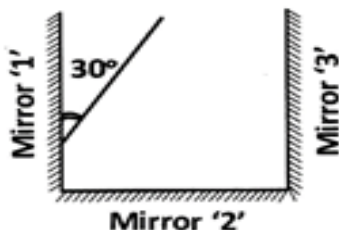
20. $\left(\frac{x^a}{x^b}\right)^{(a+b)} \cdot \left(\frac{x^b}{x^c}\right)^{(b+c)} \cdot \left(\frac{x^c}{x^a}\right)^{(c+a)} = ?$
 a) 0 b) x^{abc} c) x^{a+b+c} d) 1
21. If $3^x - 3^{x-1} = 18$, then the value of x^x is:
 a) 3 b) 8 c) 27 d) 21
22. If $A : B : C = 2 : 3 : 4$ then what is $\frac{A}{B} : \frac{B}{C} : \frac{C}{A}$ equal to?
 a) $7 : 5 : 24$ b) $4 : 6 : 8$ c) $8 : 9 : 24$ d) $2 : 3 : 4$
23. What percent of $\frac{2}{7}$ is $\frac{1}{35}$?
 a) 25 b) 20 c) 15 d) 10
24. If $\frac{547.527}{0.0082} = x$, then the value of $\frac{547527}{82}$ is
 a) $\frac{x}{10}$ b) $10x$ c) $100x$ d) $\frac{x}{100}$
25. If $3x + 2y = 12$ and $xy = 6$ then $9x^2 + 4y^2 = ?$
 a) 36 b) 72 c) 144 d) 84
26. Solve: $\frac{x+5}{4} - \frac{3x-1}{8} + \frac{4-x}{6} = 2\frac{1}{24}$. The value of x is
 a) 1 b) -1 c) 0 d) 2
27. In the given figure, BA and BC are produced to meet CD and AD produced at E and F. Then $\angle AED + \angle CFD$ is



- a) 80° b) 50° c) 40° d) 160°
28. On selling 17 balls at Rs 720, there is a loss equal to cost price of 5 balls. The cost price of a ball is
 a) Rs 45 b) Rs 50 c) Rs 60 d) Rs 55
29. 17 cards numbered 1,2,3, , 17 are put in a box and mixed thoroughly. One person draws a card from the box. Find the probability that the number on the card is divisible by 3 and 2 both.
 a) $\frac{2}{17}$ b) $\frac{4}{17}$ c) $\frac{8}{17}$ d) $\frac{3}{17}$
30. Identify the false statement from the following:
 a) A cuboid has 3 pairs of opposite faces. b) The number of vertices of a cube is 6.
 c) All sides of a square are equal. d) A cuboid is a three dimensional figure.

Science (15 Marks)**Physics (5 Marks)**

31. A train of length 100m is crossing a bridge 200m in length at the speed of 72 km/h. The time taken by the train to cross the bridge is –
- a) 15s b) 30s c) 10s d) 45s
32. Mirror 1, 2 and 3 are placed at right angle as shown below and a ray of light is made incident on mirror 1.



- What will be the angle of reflection from mirror 3?
- a) 30° b) 45° c) 60°
- d) The reflected ray from mirror 2 will be parallel to the surface of mirror 3.
33. can't take place in gravity free space.
- a) Radiation b) Natural convection c) Conduction d) All of the above
34. The potential difference between the terminal of an electric heater is 100 V, when it draws a current of 2A. What will be the current in the heater if the potential difference between the terminal becomes 150V?
- a) 2.8 A b) 4A c) 2A d) 3A
35. A car covers the first half of the distance between the two places at a speed of 40 km/h and the second half at 60 km/h. What is the average speed of the car ?
- a) 50 km/h b) 60 km/h c) 48 km/h d) 84 km/h

Chemistry (5 Marks)

36. Milkman usually add a very small amount of baking soda to fresh milk during summer season. What is the nature of baking soda?
- a) Acidic b) Neutral c) Basic d) Salt
37. The clean selected wool fibres are passed through rollers, which are then, arranged into flat sheet called a web. This web is then formed into narrow untwisted fibres known as
- a) Slivers b) Carding c) Vicuna d) Spinning
38. The gas we use in the kitchen is called liquefied petroleum gas (LPG). In the cylinder it exists as a liquid when it comes out from the cylinder it becomes a gas (change A) then it burns (change B). The following statements pertain to these changes. Choose the correct one.

- a) Process – A is a chemical change
b) Process – B is a chemical change
c) Both processes A and B are chemical change
d) None of these processes is a chemical change
39. 'Kulhs' is the ancient water harvesting structures, which are still in use today. It is related to which state.
a) Himachal Pradesh b) Uttar Pradesh c) Madhya Pradesh d) Rajasthan
40. Which of the following represents correct food chain?
a) Orchids → Moths → Mice → Owl b) Orchids → Mice → Moths → Owl
c) Owl → Mice → Moths → Orchids d) Owl → Moths → Mice → Orchids

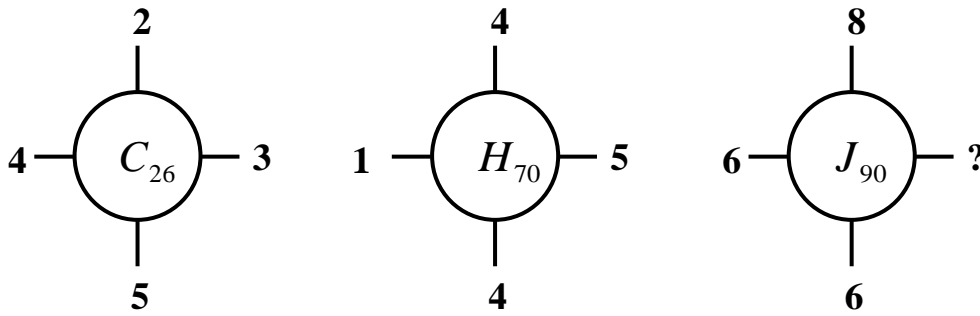
Biology (5 Marks)

41. The inner lining of stomach is protected by one of the following from the harmful effect of HCl acid.
This is :-
a) Pepsin b) Saliva c) Bile d) Mucus
42. Lactic acid is produced during anaerobic respiration, it is a
a) Three carbon atom compound b) Four carbon atom compound
c) Six carbon atom compound d) Five carbon atom compound
43. Which is located on the outer side of the vascular bundle?
a) Xylem b) Phloem
c) Both located on the same site
d) Neither xylem nor phloem located on the outer side of vascular bundle
44. True root is originated from
a) Radicle b) Plumule
c) Part of the plant other than radical d) Node
45. Which of following statements is or are correct ?
a) Gametes are the reproductive cells which are commonly known as sex cells.
b) The production of new plant from the existing plant without the involvement of sex cells is called Asexual reproduction
c) In asexual reproduction in plants, new plants can be obtained from an existing plant without seeds
d) All of above

Aptitude (15 Marks)

46. Konkani is related to Goa in the same way Dogri is related to _____.
a) Himachal Pradesh b) Sikkim c) Jammu d) Assam

Direction (Q57-Q58): Find the missing term: - ?
57.



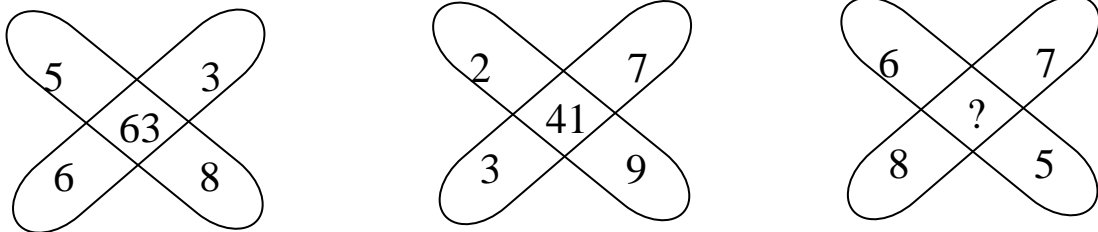
a) 2

b) 3

c) 4

d) 5

58.



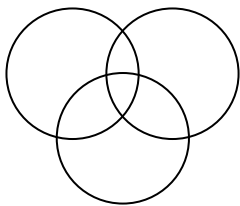
a) 26

b) 82

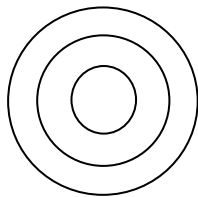
c) 83

d) 86

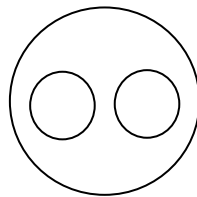
Direction (Q59- Q60): - In each of these questions, three words are related in some way. The relation among the words in the question can best be represented by one of the four diagrams (a), (b), (c) and (d) given below. Mark your answer accordingly.



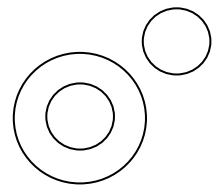
a)



b)



c)



d)

59. Mother, Homosapien, Woman

60. Professor, Researcher, Scientist