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RRB ALP & Technician Exam 2018

Notebook 10

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1. Maxwell is the unit of –
(a) Permeability (b) Magnetic flux
(c) magnetic susceptibility
(d) intensity of magnetization
2. An object with a constant speed –
(a) is always accelerated (b) is not accelerated
(c) might be accelerated
(d) also has a constant velocity.
3. Fat can be separated from milk in a cream separator because of – Daily PDF Download: www.gksolve.com
(a) cohesive force (b) gravitational force
(c) centripetal force (d) Centrifugal force
4. Which of the following is correct, when a person walks on a rough surface ?
(a) The frictional force exerted by the surface keeps him moving
(b) The force which the man exerts on the floor keeps him moving
(c) The reaction of the force which the man exerts on floor keeps him moving
(d) None of the above
5. If the distance between two masses is doubled, the gravitational attraction between them :
(a) is doubled (b) is reduced to half
(c) becomes four times (d) is reduced to quarter
6. An inflated balloon is floating on the surface of water. It is pushed so as to submerge completely and then released it will –
(a) sink to the bottom
(b) come back to its earlier position
(c) remain submerged at the same place
(d) first sink to the bottom and then come up

7. Kerosene oil rise up in the wick of lantern because of :
(a) surface tension (b) buoyant force of air
(c) Diffusion of the oil through the wick
(d) the gravitational pull of the wick.
8. A small and a large rain drops are falling through air –
(a) the small drop moves faster
(b) the large drop moves faster
(c) both moves with same speed
(d) None of the above
9. The S.I unit of elastic potential energy is –
(a) watt (b) joule
(c) joule-second (d) joule S^{-1}
10. When ice melts, its –
(a) volume decreases (b) volume increases
(c) volume and mass both decrease
(d) volume decreases while mass increases
11. Transverse waves can propagate –
(a) in a gas but not in a metal
(b) both in a gas and in a metal
(c) not in a gas but in a metal
(d) neither in a gas nor in a metal
12. Rate of diffusion is –
(a) faster in gases than in liquids and solids
(b) equal in solids, liquids and gases
(c) faster in solids than in liquids and gases
(d) faster in liquids than in solids and gases
13. Glasses and plastics are –
(a) amorphous solids (b) super cooled liquid
(c) Both (a) and (b) (d) None of these
14. The number of unpaired electrons in Mn^{2+} is –
(a) 1 (b) 3 (c) 4 (d) 5

15. The constituent particles of a nucleus in an atom are –

- (a) electron and proton (b) proton and neutron
- (c) electron and neutron
- (d) electron, proton and neutron

16. The function of heavy water in a nuclear reactor is to –

- (a) slowing down the speed of neutrons
- (b) increase the speed of neutrons
- (c) cooling down the reactor
- (d) stop the nuclear reaction

17. Which of the following contains both ionic and covalent bond ?

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- (a) H_2O (b) NaOH (c) C_6H_6 (d) CO_2

18. Butter is a colloid formed when –

- (a) fat is dispersed in water
- (b) fat globules are dispersed in water
- (c) water is dispersed in fat
- (d) suspension of casein in water

19. The order of photochemical reaction between H_2 and Cl_2 is –

- (a) Zero (b) First (c) Second (d) Third

20. Which statement is correct about the fusion of copper ?

- (a) A solid is formed (b) Heat is required
- (c) The process is exothermic (d) Heat is released

21. Which of the following has maximum density ?

- (a) Chloroform (b) Water (c) Benzene (d) Ice

22. The gas used in a refrigerator is –

- (a) cooled down on flowing
- (b) heated up on flowing
- (c) cooled down when compressed
- (d) cooled down when expanded

23. German Silver is an alloy of –

- (a) gold and silver (b) copper and silver
- (c) copper, zinc and silver
- (d) copper, zinc and nickel

23. German Silver is an alloy of –
(a) gold and silver (b) copper and silver
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(d) copper, zinc and nickel
24. Which one of the following formed from sea water ?
(a) Halogen (b) Chlorine (c) Oxygen (d) Sulphur
25. Cellular tot potent means –
(a) synthesis of new cells
(b) formation of new species
(c) formation of new plants
(d) capability of a plant cell to form complete plant
26. In a living cell, what is the site of ribosome formation ?
(a) Golgi bodies (b) Endoplasmic reticulum
(c) plasma membrane (d) nucleolus
27. Mitochondrial cristal are the site of –
(a) Breakdown of macromolecules
(b) Protein synthesis
(c) Phosphorylation of flavoprotein
(d) Oxidation reduction reaction
28. The corner of the cells of collenchyma tissue in plant are thickened due to deposition of –
(a) lignin and suberin (b) suberin and cutin
(c) cellulose and pectin (d) chitin and lignin
29. How many teeth in man come out twice ?
(a) 4 (b) 12 (c) 20 (d) 28
30. The monocot plants lack the process of grafting. It is mainly due to lack of –
(a) vascular tissue (b) ground tissue
(c) parenchymatous tissue (d) cambium tissue

31. Mammal who have capacity to distinguished the colour –

- (a) man and dog (b) man, dog and monkey
~~(c) all mammals~~ (d) man and monkey

32. Fertilization in frog is –

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- ~~(a)~~ External (b) internal

- (c) Both (a) and (b) (d) None of these

33. Generally insects respire through –

- (a) skin (b) gill (c) lung ~~(d)~~ spiracle

34. Archaeopteryx is a connecting link between –

- (a) reptiles and mammals (b) birds and mammal
~~(c)~~ reptiles and birds (d) amphibian and reptiles

35. Locomotory organ of Hydra is –

- (a) Pseudopodia (b) Cilia
~~(c)~~ Tentacles (d) flagella

36. BMD testing is done to diagnose –

- (a) dengue (b) malaria ~~(c)~~ osteoporosis (d) AIDS

37. Which one of the following pairs is not correctly matched ?

- (a) Kalinga Award : Popularization of Science
(b) David Cohen Award : Literature
(c) Borlaug Award : Agriculture
~~(d)~~ Pulitzer Prize : Progress in religion

38. Vishwakarma Rashtriya Puraskar is given by which of the following ministry ?

- (a) Ministry of culture ~~(b)~~ Ministry of Labour
(c) Ministry of Minority affairs
(d) Ministry of Rural Development

39. Which one of the following forms of dance is Shobhna Narayan known for ?

- ~~(a)~~ Kathak (b) Bharatnatyam
(c) Odissi (d) Kathakali

- (c) Odissa. (d) Bihar
40. The book 'The Audacity of Hope' has been written by –
(a) Nayantara Sehgal (b) Aravind Adiga
(c) Vikram Seth (d) Barack Obama
41. The government opium factory is located in –
(a) Gazipur (UP) (b) Muzzafar Nagar
(c) Karim Nagar (d) Ananpur
42. Hirakund Project is located in –
(a) West Bengal (b) MP
(c) Odisha (d) Bihar
43. Vikram Sarabhai space centre (Vssc) is at –
(a) Thiruvananthapuram (b) Mumbai
(c) Hyderabad (d) Bengaluru
44. 'National Consumer Rights Day' is observed on –
(a) December 7th (b) December 4th
(c) December 24th (d) December 10th
45. A player wins Grand-Slam in Tennis, when he wins –
1. Australian Open 2. Wimbledon
3. French Open 4. US Open 5. Davis Cup

Codes :

- (a) 1, 2 and 3 (b) 1, 2, 3 and 4
(c) 2, 3 and 4 (d) All of these
46. In which State the First Mega Food Park inaugurated recently ?
(a) Maharashtra (b) Kerala
(c) Tamil Nadu (d) Bihar
47. Which country was elected as Vice Chair of Financial Action Task Force (FATF) ?
(a) China (b) India
(c) Afghanistan (d) Pakistan
48. This is the host country of 23rd edition of the world congress on information Technology –

- (a) Mexico (b) Brazil (c) Canada (d) Armenia
49. Which film has won the best film award at the 71st British Academy of Film and Television Arts (BAFTA) Awards ?
(a) The shape of water (b) Call me by your name
(c) Three Billboards outside Ebbing, Missouri
(d) Darkest Hour
50. Which State Cricket team has won the 2018 Vijay Hazare Trophy ? **Daily PDF Download: www.gksolve.com**
(a) Saurashtra (b) Karnataka
(c) Maharashtra (d) Hyderabad
51. Which organisation plans to build 'igloos' on Moon for astronauts ?
(a) ISRO (b) NASA (c) SpaceX (d) DRDO
52. The altitude of an equilateral triangle is $\sqrt{3}$ cm. What is its perimeter ?
(a) 3 cm (b) $3\sqrt{3}$ cm (c) 6 cm (d) $6\sqrt{3}$ cm
53. A rectangular grass plot $80m \times 60m$ has two roads, each 10 m wide, running in the middle of it, one parallel to length and the other parallel to breadth. Find the area of the roads.
(a) 1300 sq. m (b) 1200 sq. m
(c) 1050 sq.m (d) 1000 sq.m
54. In 1 km race, the ratio of the speeds of two contestants L and M is $3 : 4$. L has a start of 280 m. L wins by how many metres?
(a) 40 m (b) 60 m (c) 45 m (d) 65 m
55. Ramesh rows in still water with a speed of 4.5 km/h to go to a certain place and to come back. Find his average speed for the whole journey. If the river is flowing with a speed of 1.5 km/h.
(a) 3 km/h (b) 4 km/h (c) 2 km/h (d) 4.5 km/h
56. A 400 m long train takes 36 sec to cross a man walking at 20 km/h. in the direction opposite to that of the train. What is the speed of the train?
(a) 20 km/h (b) 30 km/h
(c) 15 km/h (d) 11 km/h

- (c) 15 km/h (d) 11 km/h
57. A man completes 30 km of a journey at 6 km/h. and the remaining 40 km of the journey in 5h. Find the average speed for the whole journey.
- (a) $6\frac{4}{11}$ km/h (b) 7 km/h
(c) $7\frac{1}{2}$ km/h (d) 8 km/h
58. A pipe can fill a tank in 20 h. Due to a leak in the bottom, it is filled in 40 h. If the tank is full, how much time will the leak take to empty it ?
- (a) 40 h (b) 30 h (c) 50 h (d) 30 h
59. A and B can do a piece of work in 10 h. B and C can do it in 15 h, while A and C take 12 h to complete the work. B independently can complete the work in -
- (a) 12 h (b) 16 h (c) 20 h (d) 24 h
60. If Akshay is as much elder than Vinay as he is younger to Kartik and sum of ages of Vinay and Kartik is 48 year, then find the age of Akshay.
- (a) 24 year (b) 20 year (c) 30 year (d) 25 year
61. X Starts a business with ₹ 300000 and Y joins him after 3 months with 1200000. Find the ratio of their profits at the end of the year.
- (a) 2 : 5 (b) 3 : 5 (c) 5 : 1 (d) 1 : 3
62. A trader has 50 kg of pulses part of which he sells at 8% profit and rest at 18% profit. He gains 14% on the whole what is the quantity sold at 18% profit ?
- (a) 30 kg (b) 35 kg (c) 40 kg (d) 60 kg
63. In a school, the ratio of boys and girls is 4 : 5. When 100 girls leave the school, the ratio becomes 6 : 7. How many boys are there in the school ?
- (a) 1800 (b) 1200 (c) 1000 (d) 1500
64. At simple interest, a sum becomes 3 times in 20

year. Find the time, in which the sum will be double at the same rate of interest.

(a) 8 year (b) 10 year (c) 12 year (d) 14 year

65. Successive discounts of 10%, 20% and 30% is equivalent to single discount of –

(a) 60% (b) 49.6% (c) 40.5% (d) 36%

66. The cost price of an item is two third of its selling price. What is the gain or loss percent on that item ?

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(a) 45 (b) 50 (c) 35 (d) 54

67. The price of a certain article is ₹ 15000. But due to Slump in the market, its price decreases by 8%. Find the new price of the article –

(a) 14000 (b) 13800 (c) 16500 (d) 12600

68. Find out the correct alternative in which number of letters skipped in between adjacent letters in the series, is two –

(a) LORTW (b) GJMPG (c) KNPSV (d) EHKLO

69. In a certain code language, 'STARK' is written as 'LBFGM' and 'MOBILE' is written as 'TNRSPJ'. How will 'BLAME', be written in that same code language ?

(a) TSFRS (b) RPFTJ (c) NJFTP (d) TSFGJ

70. If the positions of the first and the third digits within each number are interchanged, which of the following will be the third digit of the second lowest number ?

(a) 9 (b) 5 (c) 7 (d) 8

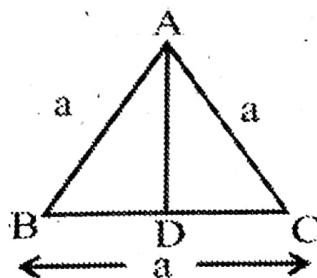
71. Markandey is Rajiv's mother's father. Markandey has three brothers. One of them has grandson Abhi. Rajan is son of Abhi-Rajan is related to Rajiv as –

(a) Brother (b) Nephew (c) Cousin (d) Uncle

- (a) Brother (b) Nearest (c) Father (d) Son
72. If + means '÷', ÷ means '−', − means '×' and × means '+', then value of $12 + 3 \div 1 - 5 \times 2$ is –
 (a) 5 (b) ~~3~~ 3 (c) 1 (d) -1
73. In a clock at 12 : 30, hour needle is in north direction while minute needle is in south direction. In which direction would be minute needle at 12 : 45 ?
 (a) North-West (b) South-East
 (c) West (d) East
74. If it is Saturday on January 1, 2000 then January 1, 2001 would have been –
 (a) Monday (b) Tuesday
 (c) Friday (d) Saturday
75. There are five different houses, A to E, in a row, A is to the right of B and E is to the left of C and right of A, B is to the right of D. Which of the houses is in the middle ?
 (a) A (b) B (c) C (d) D

EXPLANATIONS

52. (c) Height of equilateral triangle



$$(AD) = \frac{\sqrt{3}}{2} \times \text{side}$$

$$\therefore \sqrt{3} = \frac{\sqrt{3} \times \text{side}}{2}$$

$$\Rightarrow 2\sqrt{3} = \sqrt{3} \times \text{side} \Rightarrow \text{side} = \frac{2\sqrt{3}}{\sqrt{3}} = 2$$

Perimeter of an equilateral triangle
 $= 3a = 3 \times 2 = 6 \text{ cm}$

53. (a) Area of the grass plot = $80 \times 60 = 4800$ sq.m
 Width of the road = 10 m
 New length without road = $(80 - 10) = 70$ m
 New breadth without roads = $60 - 10 = 50$ m
 Area of park without roads = $70 \times 50 = 3500$ sq.m.

Now, area of the roads

$$= \text{Area of plot} - \text{area of plots without roads}$$

$$= 4800 - 3500 = 1300 \text{ sq. m.}$$

54. (a) To reach the winning post, L will have to cover a distance of $(1000 - 280) = 720$ m
 When L covers 3m, then M covers 4m
 When L covers 720m, then M covers

$$\left(\frac{4}{3} \times 720 \right) = 960 \text{ m}$$

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\therefore L wins by 40 m

55. (b) Ramesh's speed upstream = $4.5 - 1.5 = 3$ km/h
 Ramesh's speed downstream = $4.5 + 1.5 = 6$ km/h
 Let the distance in one direction be x
 Then, time taken in upstream = $x/3$
 time taken in downstream = $x/6$

$$\text{Average speed} = \frac{\text{Total distance}}{\text{Total time}}$$

$$= \frac{2x}{x/3 + \frac{x}{6}} = \frac{2x \times 18}{6x + 3x} = 4 \text{ km/h}$$

56. (a) Relative speed of train

$$= \frac{400}{36} \text{ m/s} = \frac{400}{36} \times \frac{18}{5} = 40 \text{ km/h}$$

Relative speed of train = speed of train + speed of man $\Rightarrow 40 = \text{speed of train} + 20$

\therefore speed of train = $40 - 20 = 20$ km/h

57. (b) Total distance = $30 + 40 = 70$ km

$$\text{Total time taken} = \frac{30}{6} + 5 = \frac{60}{6} = 10 \text{ h}$$

$$\text{Required average speed} = \frac{70}{10} = 7 \text{ km/h}$$

58. (a) Let the leak empties the full tank in x hour.

Part emptied in 1h by leak = $1/x$

Part filled by inlet in 1h = $1/20$

$$\text{According to the question, } \frac{1}{20} + \frac{1}{x} = \frac{1}{40}$$

$$\Rightarrow \frac{1}{x} = \frac{1}{40} - \frac{1}{20} = \frac{1-2}{40} = -\frac{1}{40}$$

[– ve sign indicates emptying]

Leak will empty the full tank in 40 h

ANSWERS

1. (b)	2. (c)	3. (d)	4. (c)	5. (b)
6. (b)	7. (a)	8. (c)	9. (b)	10. (a)
11. (c)	12. (a)	13. (c)	14. (d)	15. (b)
16. (a)	17. (b)	18. (c)	19. (a)	20. (b)
21. (b)	22. (d)	23. (d)	24. (a)	25. (d)
26. (d)	27. (d)	28. (c)	29. (c)	30. (d)
31. (c)	32. (a)	33. (d)	34. (c)	35. (c)
36. (c)	37. (d)	38. (b)	39. (a)	40. (d)
41. (a)	42. (c)	43. (a)	44. (c)	45. (b)
46. (a)	47. (a)	48. (d)	49. (c)	50. (b)
51. (a)	52. (c)	53. (a)	54. (a)	55. (b)
56. (a)	57. (b)	58. (a)	59. (d)	60. (a)
61. (d)	62. (a)	63. (b)	64. (b)	65. (b)
66. (b)	67. (b)	68. (b)	69. (b)	70. (d)
71. (b)	72. (c)	73. (c)	74. (a)	75. (a)

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