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|-------------------|----------------------------|
| Participant ID: | |
| Participant Name: | |
| Test Center Name: | |
| Test Date: | 27/09/2018 |
| Test Time: | 12:30 PM - 2:30 PM |
| Subject: | TGT NATURAL SCIENCE FEMALE |

Section : Mental Ability

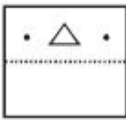
Q.1 How would the pattern appear when the transparent sheet is folded at the dotted line:

Question ID : 16794316349



Ans

✗ 1.



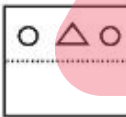
✗ 2.



✓ 3.

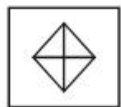


✗ 4.



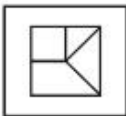
Q.2 Spot the embedded figure given below from the options.

Question ID : 16794316346

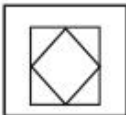


Ans

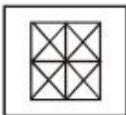
✗ 1.



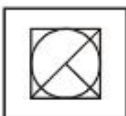
✗ 2.



✓ 3.



✗ 4.



Q.3 Find the odd pair of numerals:

Question ID : 16794316357

- Ans
- ☒ 1. 67-55
 - ☒ 2. 82-70
 - ☒ 3. 43-33
 - ☒ 4. 64-52

Q.4 Animals have:

Question ID : 16794316350

- Ans
- ☒ 1. Feathers
 - ☒ 2. Legs
 - ☒ 3. Mobile
 - ☒ 4. Tails

Q.5 You are dancing in the pub. When your friend gets stuck on a live electric wire you-

Question ID : 16794316347

Choose the correct statement:

- Ans
- ☒ 1. Raise an alarm to call some people for help
 - ☒ 2. Hold the wire and pull away
 - ☒ 3. Pull off the wire with wooden stick
 - ☒ 4. Hold him/her with your hands and try to set back

Q.6 Nandini is sister of Namya. How is Namya's brother's mother's only son related to Nandini?

Question ID : 16794316352

- Ans
- ☒ 1. Uncle
 - ☒ 2. Cousin
 - ☒ 3. Brother
 - ☒ 4. Father

Q.7 Find the odd pair of words:

Question ID : 16794316356

- Ans
- ☒ 1. Cock : Hen
 - ☒ 2. Lord : Lady
 - ☒ 3. Dog : Bitch
 - ☒ 4. Bullock : Vixen

Q.8 If A stands for +, B stands for -, C stands for X, find the value of (5C6) A (2C4) B8?

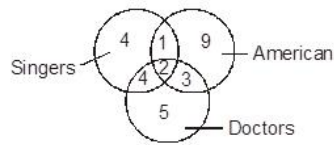
Question ID : 16794316353

- Ans
- ☒ 1. 40
 - ☒ 2. 30
 - ☒ 3. 32
 - ☒ 4. 38

Q.9

Question ID : 16794316351

Study the following figure carefully and answer the given question:



Which region denotes Americans who are neither singers nor Doctors?

- Ans
- ☒ 1. 15
 - ☒ 2. 9
 - ☒ 3. 13
 - ☒ 4. 3

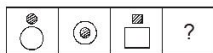
Q.10 'Mare' is related to 'Horse' in the same way as 'Vixen' is related to:

Question ID : 16794316340

- Ans
- ☒ 1. Blue
 - ☒ 2. Fox
 - ☒ 3. Lion
 - ☒ 4. Dog

Q.11 Select the option that is related to the third term in the same way as the second term is related to the first term.

Question ID : 16794316341



Ans

- ☒ 1.
- ☒ 2.
- ☒ 3.
- ☒ 4.

Q.12 एक छात्र ने जितने सवाल सही हल किए उसके तीन गुना सवाल गलत हल किए। अगर उसने कुल 60 सवाल हल किए, तो उसने कितने सवाल सही हल किए?

Question ID : 16794316354

- Ans
- ☒ 1. 20
 - ☒ 2. 15
 - ☒ 3. 18
 - ☒ 4. 12

Q.13

Question ID : 16794316348

The following are the conditions for selecting list of a suitable candidates to be called for interview after the written test for the recruitment is conducted/ organized for management-level persons of a multi-national company. For providing accounting services and sales the candidate must

- (a) be holding a graduation in basic science with 65% or above or B.E degree with 55% and above marks
- (b) have passed the written test with 70% or above marks
- (c) the age must be in the group 25 to 30 yrs as on 1/4/18
- (d) have experience in an accounting firms for three yrs and diploma in accounting with 60% or above marks
- (e) be presently drawing CTC of 6Lakhs per annum and above

In case the applicant who satisfies all other terms above except

1) at (a) above, then be referred as Junior Accountant

2) at (d) & (e) above then be referred as

Trainee-Accountant

Satisfying all the above with experience of 5 yrs then be referred as senior-Accountant

Satisfying all the above criteria (a-e) with CA/ ICWA/ MBA (Finance) then be referred as manager (Accounts)

Read all the above information and answer the following question:

Radha Mohan has done her graduation in physics with 58% of marks. She has passed the written examination with 76% of marks. She is 27 yrs as on June 2018. She has the experience in the accounting company for four years with salary of 7 Lakhs per annum. She also has passed diploma in accounting with 61% of marks. She may be referred for the position of:

- Ans
- ☒ 1. Manager-Accountant
 - ☒ 2. Trainee-Accountant
 - ☒ 3. Senior-Accountant
 - ☒ 4. Junior-Accountant

Q.14 Choose the odd figure in the series:

Question ID : 16794316342

| | | | |
|---------------|----------------|----------------|----------------|
| $\frac{E}{5}$ | $\frac{J}{10}$ | $\frac{T}{20}$ | $\frac{U}{25}$ |
|---------------|----------------|----------------|----------------|

A B C D

- Ans
- ☒ 1. B
 - ☒ 2. D
 - ☒ 3. A
 - ☒ 4. C

TEACHERS

Q.15 What will be the missing term in the series:

Question ID : 16794316359

F, H, J, M, P, T, ?

- Ans
- ☒ 1. X
 - ☒ 2. G
 - ☒ 3. L
 - ☒ 4. T

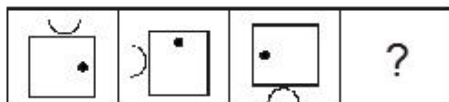
Q.16 The ratio between the present ages of M and N is 5 : 8. If N is 6 years older than M, what will be the ratio of the ages of M and N after 6 years?

Question ID : 16794316355

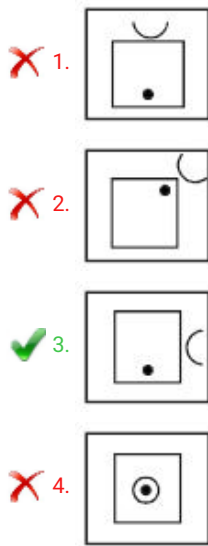
- Ans
- ☒ 1. 8 : 15
 - ☒ 2. 16 : 24
 - ☒ 3. 17 : 8
 - ☒ 4. 8 : 11

Q.17 What will be the next figure in the series:

Question ID : 16794316344

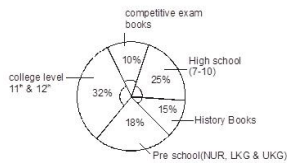


Ans



Q.18 The following pie chart shows information about the books published by a publication company "XYZ". The total number of books published by the company are 12,462 in 2016-17 including color black & white publications.

Question ID : 16794316345



How many books of competitive exams are published by XYZ in 2016-17 (approximately)?

- Ans
1. 1246
2. 3115
3. 2243
4. 1869

TEACHERS

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Q.19 what will be the missing term in the series:

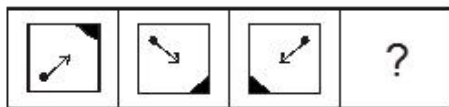
Question ID : 16794316358

34, 39, 37, 42, ?, 45

- Ans
1. 49
2. 40
3. 50
4. 47

Q.20 What is the next figure in the series:

Question ID : 16794316343

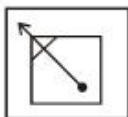


- Ans
- 1.
- 2.

✓ 3.



✗ 4.



Section : General Awareness

Q.1 Where is the capital city of Belarus located?

Question ID : 16794316363

Ans ✗ 1. Bucharest

✓ 2. Minsk

✗ 3. Lisbon

✗ 4. Baku

Q.2 According to updated World Bank figures on GDP of countries for 2017, India has become world's _____ biggest economy.

Question ID : 16794316368

Ans ✗ 1. Tenth

✗ 2. Eighth

✗ 3. Seventh

✓ 4. Sixth

Q.3 What is the study of new born called?

Question ID : 16794316375

Ans ✗ 1. Kalology

✗ 2. Cytology

✓ 3. Neonatology

✗ 4. Gynecology

Q.4 वर्गीकरण मैच में तीसरे स्थान पर, अर्जेंटीना ने सुल्तान अज़लान शाह कप 2018 के 27वें संस्करण में 3-2 गोल करके _____ को हराया।

Question ID : 16794316374

Ans ✗ 1. इंग्लैंड

✗ 2. इंडिया

✓ 3. मलेशिया

✗ 4. दक्षिण कोरिया

Q.5 On 10th May Sepoy Mutiny broke out at:

Question ID : 16794316362

Ans ✗ 1. Barrackpore

✗ 2. Kanpur

✗ 3. Jhansi

✓ 4. Merrut

Q.6 The 5th President of India was _____.

Question ID : 16794316367

- Ans
- ☒ 1. Shri Neelam Sanjeeva Reddy
 - ☒ 2. Giani Zail Singh
 - ☒ 3. Dr. Fakhruddin Ali Ahmed
 - ☒ 4. Shri V.V. Giri

Q.7 'Tawa Project' is an irrigation project of which state?

Question ID : 16794316364

- Ans
- ☒ 1. Odisha
 - ☒ 2. Telangana
 - ☒ 3. Madhya Pradesh
 - ☒ 4. Rajasthan

Q.8 Who among the following is a famous 'Dhrupad' singer of India?

Question ID : 16794316372

- Ans
- ☒ 1. Ustad Ghulam Mustafa Khan
 - ☒ 2. Ustad Mazhar Ali Khan
 - ☒ 3. Ustad Rahim Fahimuddin Dagar
 - ☒ 4. Ustad Bade Ghulam Ali Khan

Q.9 Which of the following article provides that the State shall endeavour for the promotion of international peace and security?

Question ID : 16794316365

- Ans
- ☒ 1. Article 51
 - ☒ 2. Article 47
 - ☒ 3. Article 50
 - ☒ 4. Article 45

Q.10 The _____ of Kargil Vijay Diwas was celebrated across India on 26 July 2018.

Question ID : 16794316378

- Ans
- ☒ 1. 16th anniversary
 - ☒ 2. 18th anniversary
 - ☒ 3. 17th anniversary
 - ☒ 4. 19th anniversary

Q.11 Ministry of Earth Sciences has unveiled SAFAR (System of Air Quality and Weather Forecasting), the first of its kind and most advanced system in India in _____.

Question ID : 16794316377

- Ans
- ☒ 1. Ahmedabad
 - ☒ 2. Mumbai
 - ☒ 3. Delhi
 - ☒ 4. Pune

Q.12 Which of the following rulers established the Gupta dynasty?

Question ID : 16794316360

- Ans
- ☒ 1. Ramgupta
 - ☒ 2. Samudragupta
 - ☒ 3. Chandragupta I

✓ 4. Sri Gupta

Q.13 किस संवैधानिक संशोधन से सुप्रीम कोर्ट और उच्च न्यायालयों के अधिकार क्षेत्र को कम किया गया था?

Question ID : 16794316366

- Ans
- ✗ 1. 43वें संवैधानिक संशोधन अधिनियम, 1974
 - ✗ 2. 39वें संवैधानिक संशोधन अधिनियम, 1975
 - ✗ 3. 44वें संवैधानिक संशोधन अधिनियम, 1974
 - ✓ 4. 42वां संवैधानिक संशोधन अधिनियम, 1974

Q.14 Leela Samson is a classical dancer of which dance form?

Question ID : 16794316371

- Ans
- ✗ 1. Kathakali
 - ✗ 2. Manipuri
 - ✗ 3. Odissi
 - ✓ 4. Bharatnatyam

Q.15 Which country ranked 1st among 100 countries in recently released Global Real Estate Transparency Index (GRETII)?

Question ID : 16794316369

- Ans
- ✓ 1. UK
 - ✗ 2. France
 - ✗ 3. US
 - ✗ 4. Australia

Q.16 Indian Railways inaugurated Regional Rail Training Institute (RRTI) at _____ in a bid to strengthen expertise and capabilities of the employees of North-Eastern Railway.

Question ID : 16794316379

- Ans
- ✗ 1. Sealdah
 - ✗ 2. Hajipur
 - ✗ 3. Kanpur
 - ✓ 4. Ghazipur

Q.17 How many Sangams (assembly of Tamil poets) were held in south India?

Question ID : 16794316361

- Ans
- ✗ 1. Four
 - ✗ 2. Two
 - ✓ 3. Three
 - ✗ 4. Five

Q.18 Which player was given the Golden Boot award in the 2018 FIFA World Cup?

Question ID : 16794316373

- Ans
- ✗ 1. Kylian Mbappe
 - ✗ 2. Antoine Griezmann
 - ✓ 3. Harry Kane
 - ✗ 4. Romelu Lukaku

Q.19 Where is the headquarter of African Union (AU) situated?

Question ID : 16794316376

- Ans
- ✓ 1. Addis Ababa

- ☒ 2. Cairo
- ☒ 3. Nairobi
- ☒ 4. Harare

Q.20 Kavadi is a folk dance associated with which state of India?

Question ID : 16794316370

- Ans
- ☒ 1. Goa
 - ☒ 2. Tamil Nadu
 - ☒ 3. Karnataka
 - ☒ 4. Kerala

Section : Arithmetic Ability

Q.1 The value of $1 + \frac{1}{2 + \frac{1}{3 + \frac{5}{6}}}$ is equal to:

Question ID : 16794316381

- Ans
- ☒ 1. $\frac{51}{23}$
 - ☒ 2. $\frac{75}{52}$
 - ☒ 3. $\frac{49}{21}$
 - ☒ 4. $\frac{77}{52}$

Q.2 एक त्रिभुज की भुजाएं 16 cm, 30 cm और 34 cm हैं। इसकी सबसे छोटे शीर्ष लम्ब की लंबाई क्या है? (एक दशमलव स्थान तक सही)

Question ID : 16794316391

- Ans
- ☒ 1. 14.1 cm
 - ☒ 2. 16 cm
 - ☒ 3. 15.4 cm
 - ☒ 4. 14.6 cm

Q.3 A person takes a loan at simple interest of 4% per annum for first year with an increase of 0.5 in each subsequent years. If he paid ₹ 5,309 as interest after 4 years, how much loan did he take?

Question ID : 16794316389

- Ans
- ☒ 1. ₹ 18,700
 - ☒ 2. ₹ 18,300
 - ☒ 3. ₹ 18,400
 - ☒ 4. ₹ 18,600

Q.4 A trader marks his goods 50% above cost price. He sells 40% of his stock at 10% discount, 30% of stock at 20% discount and remaining stock at 30% discount on marked price. What is his overall profit percent?

Question ID : 16794316388

- Ans
- ☒ 1. 23.5%
 - ☒ 2. 25.5%
 - ☒ 3. 18.5%
 - ☒ 4. 21.5%

Q.5 18 वस्तुएं बेचकर एक दुकानदार 2 वस्तुओं का बिक्री मूल्य खो देता है। उसका हानि प्रतिशत क्या है?

Question ID : 16794316387

Ans ☒ 1. 10%

☐ 2. $\frac{100}{9}\%$

☐ 3. $\frac{100}{11}\%$

☐ 4. $\frac{109}{11}\%$

Q.6 एक घनाब के आयामों का योग 30 cm है और इसका विकर्ण $2\sqrt{77}$ cm है। घनाब का कुल सतह क्षेत्रफल क्या है?

Question ID : 16794316392

Ans ☒ 1. 592 cm^2

☐ 2. 588 cm^2

☐ 3. 596 cm^2

☐ 4. 576 cm^2

Q.7 तांबे और ज़िंक की मिश्र धातु में वजन द्वारा 80% ज़िंक है। यदि इस मिश्र धातु के 350 ग्राम में 50 ग्राम तांबा मिलाया जाता है, तो नई मिश्र धातु में तांबे का प्रतिशत क्या होता है?

Question ID : 16794316385

Ans ☐ 1. 25%

☐ 2. 40%

☒ 3. 30%

☐ 4. 32%

Q.8 If $a : b = 2 : 5$, $b : c = 7 : 8$, then $5a : 3b : 7c$ is equal to:

Question ID : 16794316384

Ans ☐ 1. 5 : 3 : 7

☐ 2. 3 : 6 : 14

☐ 3. 4 : 6 : 15

☒ 4. 2 : 3 : 8

Q.9 In an examination 260 students appeared. Of these, 68% passed in mathematics, 72% passed in science and 20% failed in both subjects. How many students passed in both subjects?

Question ID : 16794316386

Ans ☒ 1. 156

☐ 2. 148

☐ 3. 132

☐ 4. 104

Q.10 The difference between compound interest and simple interest for 2 years on ₹ 4,200 is ₹ 34.02. The rate of interest per annum is:

Question ID : 16794316390

Ans ☒ 1. 9%

☐ 2. 11%

☐ 3. 10%

☐ 4. 8%

Q.11 A train without stoppage travels on an average speed of 80 km/h and with stoppage it travels at 64 km/h. How many minutes does the train stop on an average per hour?

Question ID : 16794316393

Ans ☐ 1. 14

- ☒ 2. 16
- ☒ 3. 12
- ☒ 4. 10

Q.12 The value of $\frac{94.3 \times 94.3 + 5.7 \times 5.7 - 94.3 \times 5.7}{9.43 \times 9.43 \times 9.43 + 0.57 \times 0.57 \times 0.57}$ is equal to:

Question ID : 16794316380

- Ans ☒ 1. 10
- ☒ 2. 100
- ☒ 3. 1000
- ☒ 4. 10000

Q.13 What is the greatest five digit number which when divided by 6, 7, 8 and 12 leaves the remainder 4 in each case?

Question ID : 16794316383

- Ans ☒ 1. 37
- ☒ 2. 35
- ☒ 3. 34
- ☒ 4. 36

Q.14 एक नाव 2 घंटे 20 मिनट में धारा के प्रतिकूल 16 km जा सकती है और मूल बिंदु पर लौट सकती है। यदि धारा की गति 2 km/hr है, तो स्थिर पानी में नाव की गति km/hr में क्या है?

Question ID : 16794316394

- Ans ☒ 1. 14
- ☒ 2. 15
- ☒ 3. 18
- ☒ 4. 16

Q.15 If 3 women or 5 men can do a piece of work in 60 hours, then in how many hours 8 men and 12 women will complete that work?

Question ID : 16794316395

- Ans ☒ 1. 8
- ☒ 2. 9
- ☒ 3. 10
- ☒ 4. 12

Q.16 The HCF of two numbers is 18 and their sum is 288. If both numbers are three digit numbers, what is the sum of their reciprocals?

Question ID : 16794316382

- Ans ☒ 1. $\frac{8}{495}$
- ☒ 2. $\frac{7}{567}$
- ☒ 3. $\frac{8}{567}$
- ☒ 4. $\frac{16}{63}$

Q.17 A और B एक काम को क्रमशः 30 दिन और 20 दिन में पूरा कर सकते हैं। दोनों ने एक साथ काम शुरू किया, लेकिन 6 दिन के बाद A ने काम छोड़ दिया। कितने दिनों में काम पूरा किया गया?

Question ID : 16794316396

- Ans ☒ 1. 10
- ☒ 2. 14
- ☒ 3. 16

Comprehension:

The following table gives the savings in rupees, from the pocket money of A and B during 6 months. Read the table and answer the following questions:

| Month | March | April | May | June | July | August |
|-------|-------|-------|-----|------|------|--------|
| A | 140 | 120 | 100 | 160 | 140 | 140 |
| B | 180 | 140 | 100 | 140 | 130 | 210 |

SubQuestion No : 18

Q.1
8 The savings of A for the month of April is what percent of total savings of A of all 6 months?

Question ID : 16794316399

- Ans
- ✗ 1. 15.4%
 - ✓ 2. 15%
 - ✗ 3. 16%
 - ✗ 4. 12%

Comprehension:

The following table gives the savings in rupees, from the pocket money of A and B during 6 months. Read the table and answer the following questions:

| Month | March | April | May | June | July | August |
|-------|-------|-------|-----|------|------|--------|
| A | 140 | 120 | 100 | 160 | 140 | 140 |
| B | 180 | 140 | 100 | 140 | 130 | 210 |

SubQuestion No : 19

Q.1
9 The savings of B are what percent more than savings of A?

Question ID : 16794316398

- Ans
- ✗ 1. $\frac{100}{9}\%$
 - ✗ 2. 10%
 - ✓ 3. 12.5%
 - ✗ 4. 15%

Comprehension:

The following table gives the savings in rupees, from the pocket money of A and B during 6 months. Read the table and answer the following questions:

| Month | March | April | May | June | July | August |
|-------|-------|-------|-----|------|------|--------|
| A | 140 | 120 | 100 | 160 | 140 | 140 |
| B | 180 | 140 | 100 | 140 | 130 | 210 |

SubQuestion No : 20

Q.2
0 If savings of B are represented in a pie-chart, what is the central angle of the sector representing the savings for the month of June?

Question ID : 16794316400

- Ans
- ☒ 1. 64°
 - ☐ 2. 62°
 - ☐ 3. 66°
 - ☐ 4. 60°

Section : General English

Q.1 Choose the most appropriate grammatical sentence from the following:

Question ID : 16794316405

- Ans
- ☐ 1. Three quarter of the students are against the new rules
 - ☐ 2. Three quarters of the students is against the new rules
 - ☐ 3. The three quarters of the students is against the new rules
 - ☒ 4. Three quarters of the students are against the new rules

Q.2 Choose the most appropriate grammatical sentence from the following:

Question ID : 16794316414

- Ans
- ☒ 1. The number of engineering colleges is gradually being reduced.
 - ☐ 2. The number of engineering colleges are gradually reduced.
 - ☐ 3. The number of engineering colleges is gradually reduced.
 - ☐ 4. The number of engineering colleges are gradually being reduced.

Q.3 Fill in the blank with the most appropriate option:

Question ID : 16794316406

She seems to always _____ things to do that she _____ all the time.

Ans

- ☒ 1. has, forget
- ☒ 2. have, forget
- ☒ 3. have, forgets
- ☒ 4. has, has forgotten

Q.4 Fill in the blank with the most appropriate option:

Question ID : 16794316410

One of my best friends who regularly _____ me on my shopping trips is going abroad.

- Ans
- ☒ 1. is joining
 - ☒ 2. joins
 - ☒ 3. join
 - ☒ 4. were joining

Q.5 Choose the most appropriate grammatical sentence from the following:

Question ID : 16794316413

- Ans
- ☒ 1. Since she was driving, so we decided to go with her.
 - ☒ 2. Although he was angry, but he wouldn't accept the apology.
 - ☒ 3. Although she confessed the truth, we couldn't believe her.
 - ☒ 4. Though it is raining, yet we did not take the umbrella.

Q.6 Choose the correct passive form of the sentence provided below:

Question ID : 16794316415

She has sent a letter to a number of students.

- Ans
- ☒ 1. A letter have been sent by her to a number of students.
 - ☒ 2. A number of students have received a letter from her.
 - ☒ 3. A letter has been sent to a number of students by her.
 - ☒ 4. A number of students have been send letters by her.

Q.7 Choose the most appropriate grammatical sentence from the following:

Question ID : 16794316411

- Ans
- ☒ 1. The newly wedded couples has decided to fly to Singapore for their honeymoon tomorrow evening.
 - ☒ 2. The newly wedded couple has decided to fly to Singapore for their honeymoon tomorrow evening.
 - ☒ 3. The newly wedded couple have decided to fly to Singapore for their honeymoon tomorrow evening.
 - ☒ 4. The newly wedded couple have decide to fly to Singapore for honeymoon tomorrow evening.

Q.8

Question ID : 16794316408

Fill in the blank with the most appropriate option:

The arrival of many delegates _____ a positive outlook.

- Ans
- ☐ 1. Indicate
 - ☐ 2. is
 - ☒ 3. indicates
 - ☐ 4. are

Q.9 Fill in the blank with the most appropriate option:

Question ID : 16794316404

If you had told me what was wrong, _____.

- Ans
- ☐ 1. I will not have hesitated to help you
 - ☐ 2. I will have hesitate to help you
 - ☒ 3. I would not have hesitated to help you
 - ☐ 4. I would not hesitate to help you

Q.10 Choose the most appropriate grammatical sentence from the following:

Question ID : 16794316402

Ans ☐ 1. I have a great time at your party last week.

☐ 2.

I have had a great time at your party last week.

☐ 3. I had a greatest time at your party last week.

☒ 4. I had a great time at your party last week.

Q.11 Choose the most appropriate grammatical sentence from the following:

Question ID : 16794316403

Ans ☐ 1.

What would you do when you will finish classes?

☐ 2.

What would you do when you finishes classes?

☒ 3. What will you do when you finish classes?

☐ 4.

What will you do when you will finish classes?

Q.12 Choose the most appropriate grammatical sentence from the following:

Question ID : 16794316412

Ans ☒ 1.

Who is supplying these students with such dangerous drugs?

☐ 2.

☐ 3.

☐ 4.

Q.13

Ans ☐ 1.

☐ 2.

Question ID : 16794316409

✗ 3.
✓ 4.

Q.14

Ans ✓ 1.
✗ 2.
✗ 3.
✗ 4.

Question ID : 16794316401

Q.15

Ans ✗ 1.
✗ 2.
✓ 3.
✗ 4.

Question ID : 16794316407

Comprehension:

SubQuestion No : 16

Q.1
6

Ans ✗ 1.
✓ 2.
✗ 3.
✗ 4.

Question ID : 16794316419

Comprehension:

SubQuestion No : 17

Q.1
7

Ans ✗ 1.
✗ 2.
✗ 3.
✓ 4.

Question ID : 16794316417

Comprehension:

SubQuestion No : 18

Q.1
8

Ans ✓ 1.
✗ 2.
✗ 3.
✗ 4.

Question ID : 16794316418

Comprehension:

SubQuestion No : 19

Q.1
9

Ans ✗ 1.

Question ID : 16794316420

✗ 2.

✗ 3.

✓ 4.

Comprehension:

SubQuestion No : 20

Q.2
0

Question ID : 16794316421

Ans

✗ 1.

✗ 2.

✗ 3.

✓ 4.

Section : General Hindi

Q.1

Ans

✗ 1.

✗ 2.

✗ 3.

✓ 4.

Question ID : 16794316430

Q.2

Ans

✓ 1.

✗ 2.

✗ 3.

✗ 4.

Question ID : 16794316429

Q.3

Ans

✗ 1.

✗ 2.

✓ 3.

✗ 4.

Question ID : 16794316441

Q.4

Ans

✗ 1.

✗ 2.

✗ 3.

✓ 4.

Question ID : 16794316431

Q.5

Ans

✗ 1.

✗ 2.

✗ 3.

✓ 4.

Question ID : 16794316425

Q.6

Question ID : 16794316437

Ans

- ☒ 1.
- ☐ 2.
- ☐ 3. वृक्षो
- ☐ 4. वृक्षा

Q.7 'जिसने प्रतिष्ठा पा ली हो।' वाक्यांश के लिए एक शब्द है:

Question ID : 16794316434

Ans

- ☐ 1. गणमान्य
- ☐ 2. ख्यातिप्राप्त
- ☒ 3. लब्धप्रतिष्ठ
- ☐ 4. अग्रगण्य

Q.8 निम्नलिखित में से तत्सम शब्द कौन-सा है?

Question ID : 16794316432

Ans

- ☐ 1. दोपहर
- ☐ 2. चाँदनी
- ☐ 3. काला
- ☒ 4. किरण

Q.9 'मैंने उसे दोपहर को देखा था।' वाक्य में कारक है:

Question ID : 16794316426

Ans

- ☒ 1. अधिकरण
- ☐ 2. कर्ता
- ☐ 3. कर्म
- ☐ 4. करण

Q.10 कौन-सा शब्द अशुद्ध है?

Question ID : 16794316424

Ans

- ☐ 1. भावुक
- ☐ 2. विषयान्तर
- ☐ 3. अनुभूति
- ☒ 4. कृपा

Q.11 'नाक कट जाना' मुहावरे का अर्थ है:

Question ID : 16794316440

Ans

- ☐ 1. तुरंत क्रुद्ध होना
- ☐ 2. बदनाम करना
- ☒ 3. प्रतिष्ठा नष्ट होना
- ☐ 4. अधिक प्रिय होना

Q.12 'वही अपराधी है।' रेखांकित का विलोम होगा:

Question ID : 16794316435

- Ans
- ✓ 1. निरपराध
 - ✗ 2. कुसूरवार
 - ✗ 3. कुख्यात
 - ✗ 4. निर्दोष

Q.13 'ग्रामगत' शब्द में समास है:

Question ID : 16794316428

- Ans
- ✓ 1. तत्पुरुष
 - ✗ 2. बहुब्रीहि
 - ✗ 3. अव्ययीभाव
 - ✗ 4. द्वन्द्व

Q.14 वर्णमाला में 'ड' से पहले कौन-सा वर्ण आता है?

Question ID : 16794316423

- Ans
- ✗ 1. ढ
 - ✗ 2. ध
 - ✓ 3. घ
 - ✗ 4. ठ

Q.15 कर्तृवाच्य वाला वाक्य छाँटिए।

Question ID : 16794316438

- Ans
- ✗ 1. प्रश्नपत्र बनाया गया।
 - ✗ 2. भोजन कर लिया जाए।
 - ✓ 3. आज हम यहीं रुकेंगे।
 - ✗ 4. सारा सामान लाया जा चुका है।

Q.16 'वत्सर्ग्य' शब्द का वर्ण विच्छेद होगा:

Question ID : 16794316422

- Ans
- ✗ 1. व् + अ त् + अ स् + र य् + अ
 - ✗ 2. व् + अ त् + स् + अ + र् + य् + अ
 - ✓ 3. व् + अ + र् + त् + स् + य् + अ
 - ✗ 4. व् + अ + त् + स् र् य् + अ

Q.17 'अन्नाभाव' शब्द बना है:

Question ID : 16794316427

- Ans
- ✗ 1. अन्ना + भवि से
 - ✗ 2. अन्न + भाव से
 - ✗ 3. अन्नाभा + व से
 - ✓ 4. अन्न + अभवि से

Q.18 'धरती' शब्द का पर्यायवाची नहीं है:

Question ID : 16794316436

- Ans
- ☒ 1. भूमि
 - ☒ 2. उर्वर
 - ☒ 3. वसुंधरा
 - ☒ 4. मेदिनी

Q.19 'अधजल गगरी छलकत जाए' का अर्थ होता है:

Question ID : 16794316439

- Ans
- ☒ 1. कारण न होने पर कार्य न होना
 - ☒ 2. डींग हाँकना
 - ☒ 3. अपना दोष न देखना
 - ☒ 4. अधिक लाभ होना

Q.20 'तद्रव' शब्द छाँटिए।

Question ID : 16794316433

- Ans
- ☒ 1. दुग्ध
 - ☒ 2. मुख
 - ☒ 3. दही
 - ☒ 4. आहार

Section : Subject Related

Q.1 जेनेटिक कोड में निम्न में से कौन सा गैर-समझ कोड है?

Question ID : 16794316460

- Ans
- ☒ 1. AUG
 - ☒ 2. GUG
 - ☒ 3. UAG
 - ☒ 4. AGU

Q.2 Bacteriophages are classified under which organisms?


Question ID : 16794316459

- Ans
- ☒ 1. Viruses
 - ☒ 2. Bacteria
 - ☒ 3. Protozoa
 - ☒ 4. Fungi

Q.3 Carotid arteries supply the blood to which vital organ in human beings?

Question ID : 16794316445

- Ans
- ☒ 1. Brain
 - ☒ 2. Kidney
 - ☒ 3. Heart

 4. Lungs




Q.4 What is the normal pH level of human blood?

Question ID : 16794316444

- Ans
-  1. 6.35
 -  2. 4.35
 -  3. 2.35
 -  4. 7.35





Q.5 Which of the following glands secretes the hormone Secretin?

Question ID : 16794316453

- Ans
-  1. Kidney
 -  2. Duodenum
 -  3. Pancreas
 -  4. Liver





Q.6 Which of the following cell organelles is involved in packing of lipids?

Question ID : 16794316443

- Ans
-  1. Endoplasmic Reticulum
 -  2. Lysosomes
 -  3. Chloroplasts
 -  4. Ribosomes

Q.7 During asexual reproduction, the formation of Gemmules is seen in which of the following organisms?

Question ID : 16794316456

- Ans
-  1. Sponges
 -  2. Protozoa
 -  3. Bacteria
 -  4. Earthworms


Q.8 What is the gestation period of elephants approximately?

Question ID : 16794316457

- Ans
-  1. 300 days
 -  2. 30 days
 -  3. 500 days
 -  4. 60 days


Q.9 Stomata play a major role in which of the following life processes?

Question ID : 16794316446

- Ans
-  1. Transpiration
 -  2. Respiration
 -  3. Circulation
 -  4. Photosynthesis

Q.10 निम्नलिखित में से किन स्थितियों में रोगी में बदली मुद्रा और चलने वाली शैली होती है?

Question ID : 16794316451

- Ans
-  1. संवेदनलोप (अग्नोसिया)

- ☒ 2. स्वरलोप (अफासिया)
- ☒ 3. श्वासरोध (अटेलेक्टासिस)
- ☒ 4. गतिविभ्रम (अटाक्सिया)

Q.11 Which of the following statements is FALSE?

Question ID : 16794316455

Ans ☒ 1.

The Pituitary gland is also known as 'Hypophysis cerebri'

- ☒ 2. Adenohypophysis releases FSH
- ☒ 3. The Thyroid gland releases TSH
- ☒ 4.

98% of Pancreas is formed by Exocrine cells

Q.12 Bowman's capsule is a part of which of the following cells in mammals?

Question ID : 16794316447

- Ans ☒ 1. Nephron
- ☒ 2. Myocyte
 - ☒ 3. Oocyte
 - ☒ 4. Neuron

Q.13 In the Hardy-Weinberg equation, which of the following represents the frequency of Heterozygous genotype?

Question ID : 16794316461

- Ans ☒ 1. Q^2
- ☒ 2. $2pq^2$
 - ☒ 3. $2pq$
 - ☒ 4. p^2

Q.14 Which of the following glands releases ADH (antidiuretic hormone) or Vasopressin?

Question ID : 16794316454

- Ans ☒ 1. Thyroid gland
- ☒ 2. Kidney
 - ☒ 3. Liver
 - ☒ 4. Pituitary gland

Q.15 Which of the following Cranial nerves supplies the face?

Question ID : 16794316449

- Ans ☒ 1. XII
- ☒ 2. X
 - ☒ 3. VII
 - ☒ 4. IX

Q.16 सकारात्मक भ्रूणभवाद में:

Question ID : 16794316452

Ans ☒ 1.

पौधों की जड़ों की ऊपर की वृद्धि देखी जाती है।

✓ 2.

पौधों की जड़ों की नीचे की वृद्धि देखी जाती है।

✗ 3.

पौधों की टहनियों के ऊपर की वृद्धि देखी जाती है।

✗ 4.

पौधों की टहनियों के नीचे की ओर वृद्धि देखी जाती है।

Q.17 Which of the following organisms is an example of Chemotrophic nutrition?

Question ID : 16794316442

Ans

✗ 1. Clostridium

✗ 2. Spirogyra

✓ 3. Archaeobacteria

✗ 4. Paramecium

Q.18 The two cerebral hemispheres of the human brain are inter-connected by which of the following tissues?

Question ID : 16794316450

Ans

✗ 1. Corpus luteum

✗ 2. Corpus delicti

✗ 3. Corpus albicans

✓ 4. Corpus callosum

Q.19 मानव शरीर के निम्नलिखित अंगों में से किस अंग में यूरिया चक्र होता है?

Question ID : 16794316448

Ans

✓ 1. यकृत

✗ 2. कोलोन

✗ 3. तिल्ली (स्प्लीन)

✗ 4. गुर्दा

Q.20 Which of the following hormones plays a major role during Parturition in human beings?

Question ID : 16794316458

Ans

✗ 1. Progesterone

✓ 2. Oxytocin

✗ 3. Prolactin

✗ 4. Estrogen

Section : Subject Related

Q.1 ग्रीनहाउस गैस, निम्नलिखित में से किस प्रकार के विकिरण उत्सर्जित करते हैं?

Question ID : 16794316475

Ans

✗ 1. दर्शनीय

✓ 2. अवरक्त

✗ 3. पराबैंगनी

✗ 4. गामा

Q.2 In which year was the Environment Protection Act of India enacted?

Question ID : 16794316476

- Ans
- ☒ 1. 1992
 - ☒ 2. 2000
 - ☒ 3. 1974
 - ☒ 4. 1986

Q.3 Green Revolution is associated with which of the following?

Question ID : 16794316479

- Ans
- ☒ 1. Agriculture
 - ☒ 2. Aquaculture
 - ☒ 3. Sericulture
 - ☒ 4. Vermiculture

Q.4 Mycobacterium bovis infection in cattle leads to which of the following diseases in humans?

Question ID : 16794316480

- Ans
- ☒ 1. Cow pox
 - ☒ 2. Leprosy
 - ☒ 3. Anthrax
 - ☒ 4. Tuberculosis

Q.5 निम्नलिखित में से कौन सा जैव कारक का उदाहरण है?

Question ID : 16794316462

- Ans
- ☒ 1. पानी
 - ☒ 2. जीवाणु
 - ☒ 3. मिट्टी
 - ☒ 4. सूर्य की रोशनी

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Q.6 What is a common feature between Rhizobium and Azospirillum?

Question ID : 16794316470

- Ans
- ☒ 1. Both are nitrogen fixing fungi
 - ☒ 2. Both are parasites
 - ☒ 3. Both are nitrogen fixing bacteria
 - ☒ 4. Both are harmful for plants

Q.7 निम्नलिखित में से कौन सा ऊर्जा का नवीकरणीय (अक्षय) स्रोत है?

Question ID : 16794316469

- Ans
- ☒ 1. सूर्य की रोशनी
 - ☒ 2. जीवाश्म ईंधन
 - ☒ 3. पेट्रोलियम
 - ☒ 4. कोयला

Q.8 Which of the following chemicals damage the Ozone layer?

Question ID : 16794316465

- Ans
- ☒ 1. Sulfuric acid

- ☒ 2. Chlorofluorocarbons
- ☐ 3. Sulphur hexafluoride
- ☐ 4. Hexachloro carbons

Q.9 Which of the following plants can survive in extremely saline conditions?

Question ID : 16794316467

- Ans
- ☐ 1. Epiphytes
 - ☐ 2. Hydrophytes
 - ☐ 3. Xerophytes
 - ☒ 4. Halophytes

Q.10 Infection with H5N1 leads to which one of the following diseases?

Question ID : 16794316481

- Ans
- ☐ 1. Fowl cholera
 - ☐ 2. HIV
 - ☐ 3. Swine flu
 - ☒ 4. Bird flu

Q.11 The process of change in structure of a species of a community over time is known as:

Question ID : 16794316466

- Ans
- ☐ 1. Ecosphere
 - ☒ 2. Ecological succession
 - ☐ 3. Ecotone
 - ☐ 4. Ecological niche

Q.12 The build-up of toxins in a food chain is known as:

Question ID : 16794316473

- Ans
- ☒ 1. Bio-magnification
 - ☐ 2. Bio-augmentation
 - ☐ 3. Bio-degradation
 - ☐ 4. Bio-accumulation

Q.13 Which of the following is a primary producer in a food chain?

Question ID : 16794316468

- Ans
- ☒ 1. Green plants
 - ☐ 2. Snake
 - ☐ 3. Eagle
 - ☐ 4. Frog

Q.14 Which of the following is the lowest region of atmosphere?

Question ID : 16794316464

- Ans
- ☐ 1. Stratosphere
 - ☐ 2. Ionosphere
 - ☐ 3. Exosphere
 - ☒ 4. Troposphere

Q.15 निम्नलिखित में से कौन सा एक सतत कार्बनिक प्रदूषक का एक उदाहरण है?

Question ID : 16794316474

- Ans
- ☒ 1. HNO_3
 - ☒ 2. $\text{C}_{12}\text{H}_8\text{C}_{16}$
 - ☒ 3. NO_2
 - ☒ 4. H_2SO_4

Q.16 Which of the following global conventions was formed to control Mercury poisoning in the world?

Question ID : 16794316477

- Ans
- ☒ 1. Kyoto protocol
 - ☒ 2. Basel convention
 - ☒ 3. Montreal protocol
 - ☒ 4. Minamata convention

Q.17 Which of the following is NOT a Greenhouse gas?

Question ID : 16794316471

- Ans
- ☒ 1. N_2O
 - ☒ 2. CO_2
 - ☒ 3. Ozone
 - ☒ 4. SO_2

Q.18 Who has coined the term Ecology?

Question ID : 16794316463

- Ans
- ☒ 1. Huxley
 - ☒ 2. Linnaeus
 - ☒ 3. Haeckel
 - ☒ 4. Darwin

Q.19 On which date is World Earth Day celebrated?

Question ID : 16794316478

- Ans
- ☒ 1. 10th January
 - ☒ 2. 22nd April
 - ☒ 3. 5th June
 - ☒ 4. 22nd December

Q.20 Which of the following are responsible for acid rains formation?

Question ID : 16794316472

- Ans
- ☒ 1. CO_2 & NO_2
 - ☒ 2. CO & CO_2
 - ☒ 3. SO_2 & NO_2
 - ☒ 4. CO_2 & N_2O

How many series of acidic salts can be formed by orthophosphoric acid?

Question ID : 16794316490

- Ans
- ☒ 1. 1
 - ☒ 2. 2
 - ☒ 3. 4
 - ☒ 4. 3

Q.2 Metalloids among P-block are NOT present in which of the following groups?

Question ID : 16794316486

- Ans
- ☒ 1. 13th and 14th groups
 - ☒ 2. 15th group
 - ☒ 3. 16th group
 - ☒ 4. 18th group

Q.3 Four gases A, B, C, D have Henry's law constants 3, 4, 5, 6 respectively. Maximum solubility of the gas in the liquid is found in:

Question ID : 16794316482

- Ans
- ☒ 1. D
 - ☒ 2. B
 - ☒ 3. It is the same for all
 - ☒ 4. A

Q.4 On heating, crystalline magnesium sulfate loses 5% to 24% of its mass. The mass of water (in grams) present in the salt is:

Question ID : 16794316484

- Ans
- ☒ 1. 7
 - ☒ 2. 180
 - ☒ 3. 48.76
 - ☒ 4. 126

Q.5 The fossil fuel that is used to manufacture carbon black is:

Question ID : 16794316499

- Ans
- ☒ 1. Producer gas
 - ☒ 2. Synthesis gas
 - ☒ 3. Coal gas
 - ☒ 4. Natural gas

Q.6 The correct expression for ionisation enthalpy of hydrogen atom in terms of Rydberg's constant (R_H) is:

Question ID : 16794316487

- Ans
- ☒ 1. hCR_H
 - ☒ 2. $R_H.C$
 - ☒ 3. $\frac{3}{4}hCR_H$
 - ☒ 4. $2hCR_H$

Q.7 In terms of ionisation enthalpy, H resembles which of the group's elements more?

Question ID : 16794316489

- Ans
- ☒ 1. Both 1st and 17th group
 - ☒ 2. 1st group

✓ 3. 17th group

✗ 4. Neither 1st group nor 17th group

Q.8 The Brownian movement is due to:

Question ID : 16794316483

Ans ✗ 1.

equal bombardment of large particles of dispersion medium by colloidal particles.

✓ 2.

unequal bombardment of colloidal particles by the molecules of the dispersion medium size.

✗ 3.

equal bombardment of colloidal particles by the molecules of dispersion medium.

✗ 4.

bombardment of small size particles of dispersion medium by colloidal particles.

Q.9 Bauxite ore is concentrated by which of the following methods?

Question ID : 16794316494

Ans ✗ 1. Electromagnetic separation

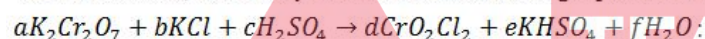
✗ 2. Froth flotation

✓ 3. Leaching

✗ 4. Hydraulic washing

Q.10 The values of a, b, c, d, e, f to balance the following equation are

Question ID : 16794316492



Ans ✗ 1. $a = 2, b = 4, c = 6, d = 2, e = 6, f = 3$

✗ 2. $a = 4, b = 2, c = 6, d = 6, e = 2, f = 3$

✗ 3. $a = 6, b = 4, c = 2, d = 6, e = 3, f = 2$

✓ 4. $a = 1, b = 4, c = 6, d = 2, e = 6, f = 3$

Q.11 Nitrites on hydrolysis gives a compound 'X' which on reaction with H^+ or $\bar{O}H$ gives Y. When Y is diluted to 5-10%, it is known as a:

Question ID : 16794316501

Ans ✗ 1. Wash

✗ 2. Rectified spirit

✓ 3. Vinegar

✗ 4. Azo dye

Q.12 Rust is a mixture of:

Question ID : 16794316495

Ans ✗ 1. Fe_3O_4 and $Fe(OH)_2$

✗ 2. FeO and $Fe(OH)_2$

✓ 3. Fe_2O_3 and $Fe(OH)_3$

✗ 4. FeO and $Fe(OH)_3$

Q.13 Which of the following statements regarding nuclides is INCORRECT?

Question ID : 16794316485

Ans ✗ 1.

Isotopes show similar chemical properties but different physical properties

✗ 2.

Isobars show similar physical properties but different chemical properties

✓ 3.

Isotopes show similar chemical as well as physical properties

✗ 4.

Isotopes show different physical and chemical properties

Q.14 The correct increasing order of pH of isomolar solutions of $K_2O(pH_1)$, $K_2S(pH_2)$, $K_2Se(pH_3)$, and $K_2Te(pH_4)$ is:

Question ID : 16794316491

Ans

✓ 1. $pH_4 < pH_3 < pH_2 < pH_1$

✗ 2. $pH_3 < pH_1 < pH_2 < pH_4$

✗ 3. $pH_1 = pH_2 > pH_3 > pH_4$

✗ 4. $pH_1 > pH_2 > pH_3 > pH_4$

Q.15 लोहे के पदार्थों को मैग्नीशियम के छोटे टुकड़ों से जोड़कर संक्षारण से बचाया जाता है, जहाँ:

Question ID : 16794316496

Ans

✓ 1.

मैग्नीशियम एक उत्सर्गी (सैक्रिफिशल) एनोड है।

✗ 2.

मैग्नीशियम एक उत्सर्गी (सैक्रिफिशल) कैथोड है।

✗ 3. लोहा एक उत्सर्गी (सैक्रिफिशल) एनोड है।

✗ 4. लोहा एक उत्सर्गी (सैक्रिफिशल) कैथोड है।

Q.16 Identify the correct order of size of the species:

Question ID : 16794316488

Ans

✗ 1. $Se^{-2} > Br^{-} > Rb^{+} > Kr$

✗ 2. $Se^{-2} > Br^{-} > Rb^{+} > Kr > Sr^{+2}$

✓ 3. $Se^{-2} > Br^{-} > Rb^{+} > Sr^{+2}$

✗ 4. $Br^{-} > Se^{-2} > Kr > Rb^{+} > Sr^{+2}$

Q.17 निम्नलिखित में से कौन सा एक इलेक्ट्रोफिलिक योग अभिक्रिया है?

Question ID : 16794316497

Ans

✓ 1. $CH_3CH = CH_2 + HBr \rightarrow CH_3CH(Br)CH_3$

✗ 2. $C_6H_6 + Cl_2 \xrightarrow[AlCl_3]{Anhydrous} C_6H_5Cl + HCl$

✗ 3.

$CH_3CH = CH_2 + HBr \xrightarrow{Peroxide} CH_3CH_2Br$

✗ 4. $C_6H_6 + Cl_2 \xrightarrow[AlCl_3]{Anhydrous} C_6H_5Cl$

Q.18 'x' moles of ozone are required to oxidise 1 mole of lead sulphide. 'y' moles of O_2 are evolved in this reaction. The mass ratio of x and y is:

Question ID : 16794316493

Ans

✗ 1. 4 : 3

✗ 2. 1 : 1

✓ 3. 3 : 2

✗ 4. 2 : 3

Q.19 The composition of power alcohol is:

Question ID : 16794316500

- Ans
- ☒ 1. 80% petrol and 20% ethanol
 - ☐ 2. 50% petrol and 50% ethanol
 - ☐ 3. 20% petrol and 80% ethanol
 - ☐ 4. 95% petrol and 5% ethanol

Q.20 What is the total number of chain isomers possible for n-Hexane?

Question ID : 16794316498

- Ans
- ☐ 1. 9
 - ☒ 2. 5
 - ☐ 3. 4
 - ☐ 4. 6

Section : Subject Related

Q.1 The focal length of an equiconvex lens is 20 cm and radius of curvature of each curved surface is 10 cm. one of the two curved surfaces is silvered. Find the effective focal length of the combination.

Question ID : 16794316513

- Ans
- ☐ 1. $\frac{20}{3}$ cm, concave
 - ☒ 2. $\frac{10}{3}$ cm, concave
 - ☐ 3. 10 cm concave
 - ☐ 4. 10 cm convex

Q.2 Which of the following is an important and major ingredient present in cement?

Question ID : 16794316505

- Ans
- ☐ 1. Dicalcium silicate
 - ☐ 2. Gypsum
 - ☒ 3. Tricalcium silicate
 - ☐ 4. Tricalcium aluminate

Q.3 A fish is at a depth of 12 cm from the surface of a lake. And a bird is at a height of 15 cm above the surface of the lake. The fish and the bird are on the same vertical line. The refractive index of water in the lake is $\frac{4}{3}$. Find the apparent distance of fish as observed by the bird.

Question ID : 16794316514

- Ans
- ☐ 1. 31 cm
 - ☐ 2. 21 cm
 - ☒ 3. 24 cm
 - ☐ 4. 27 cm

Q.4 The mechanism of cleaning action of soap is similar to that of:

Question ID : 16794316502

- Ans
- ☐ 1. Toothpastes
 - ☒ 2. Liquid dish washing detergents
 - ☐ 3. Shaving soaps
 - ☐ 4. Hair conditioners

Q.5 Which of the following is NOT the main objective of Ganga action plan?

Question ID : 16794316504

Ans

- ✓ 1. The generation of electricity
- ✗ 2. Diversion of industrial chemical wastes
- ✗ 3. To improve water quality
- ✗ 4. Treatment of domestic sewage

Q.6 Rayon is a/an:

Question ID : 16794316506

Ans

- ✗ 1. natural polymer
- ✓ 2. semi-synthetic polymer
- ✗ 3. synthetic polymer
- ✗ 4. elastomer

Q.7 A body starts from rest and moved with uniform acceleration. The distance travelled in the first 2 seconds and in the next 2 seconds are s_1 and s_2 . Find $\frac{s_1}{s_2}$

Question ID : 16794316517

Ans

- ✗ 1. $\frac{2}{3}$
- ✗ 2. $\frac{1}{4}$
- ✓ 3. $\frac{1}{3}$
- ✗ 4. $\frac{1}{2}$

Q.8 A uniform wire of resistance 9Ω is bent in the form of an equilateral triangle. Find the effective resistance across a side of the triangle.

Question ID : 16794316507

Ans

- ✗ 1. $\frac{1}{3}\Omega$
- ✓ 2. 2Ω
- ✗ 3. 27Ω
- ✗ 4. 3Ω

Q.9 A convex lens of focal length 30 cm and a concave lens of focal length 10 cm are separated by certain distance. A parallel beam of light is incident on the convex lens and the light emerging out of the combination is also parallel beam. Find the distance between the two lenses.

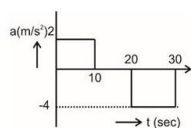
Question ID : 16794316516

Ans

- ✓ 1. 20 cm
- ✗ 2. 40 cm
- ✗ 3. 15 cm
- ✗ 4. 10 cm

Q.10 त्वरण - एक पिंड के लिए समय का ग्राफ दर्शाए गए के अनुसार विराम से शुरू होता है। पहली बार पिंड का वेग शून्य होने तक पिंड द्वारा तय की गयी दूरी का पता लगाएं।

Question ID : 16794316519



Ans

- ✗ 1. 200 m

- ✓ 2. 350 m
- ✗ 3. 100 m
- ✗ 4. 300 m

Q.11 आजकल डाईक्लोरीन (Cl_2) को पेपर की ब्लीचिंग में किससे बदल दिया गया है?

Question ID : 16794316503

Ans

- ✓ 1. हाइड्रोजन पेरोक्साइड
- ✗ 2. ब्लीचिंग पाउडर
- ✗ 3. ओजोन
- ✗ 4. सल्फर डाइऑक्साइड

Q.12 A wire of length L is bent in the form a circular loop. And current is passed through the loop. The magnetic field induction at the centre of the loop is B . Find the current passing through the loop.

Question ID : 16794316510

Ans

- ✗ 1. $\frac{B\pi L}{\mu_0}$
- ✗ 2. $\frac{BL}{\pi}$
- ✓ 3. $\frac{BL}{\mu_0\pi}$
- ✗ 4. $\frac{B\pi}{L\mu_0}$

Q.13 A balloon is filled with air. The mass of the air in the balloon is 10 gr. A small hole is made to the balloon and released. The balloon moves up with an average speed of 5 cm/s and shrinks completely in 5 seconds. Find the average force acting on the balloon.

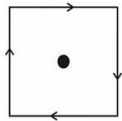
Question ID : 16794316520

Ans

- ✓ 1. 10 dynes
- ✗ 2. 5 dynes
- ✗ 3. 20 dynes
- ✗ 4. 15 dynes

Q.14 A square loop of side l is carrying current i , as shown. Find the magnetic field induction at the centre of the loop.

Question ID : 16794316509



Ans

- ✗ 1. $\frac{\mu_0 i}{2\pi l}$
- ✓ 2. $8\sqrt{2} \frac{\mu_0 i}{4\pi l}$
- ✗ 3. $\sqrt{2} \frac{\mu_0 i}{\pi l}$
- ✗ 4. Zero

Q.15 Two small angled prisms of refractive indices 1.6 and 1.5 are arranged such that light ray passes through the combination without deviation. The angle of prism for the prism of refractive index 1.5 is 4° . Find the angle of prism of the other.

Question ID : 16794316515

Ans

- ✗ 1. 10 degrees

☒ 2. 2 degrees

☒ 3. $\frac{20}{3}$ degrees

☒ 4. $\frac{10}{3}$ degrees

Q.16 Radius of curvature of a concave mirror is 40 cm. An object of height 1 cm is placed at a distance of 30 cm from the mirror. Find the height of the image.

Question ID : 16794316512

Ans ☒ 1. 3 cm

☒ 2. 1.5 cm

☒ 3. 1 cm

☒ 4. 2 cm

Q.17 Two bulbs A, of (100w, 100v), and B of (60 w, 100v) are connected in series and across the series combination 200v is applied. Which bulb will be fused?

Question ID : 16794316508

Ans ☒ 1. Bulb B

☒ 2. Bulb A

☒ 3. None

☒ 4. Both

Q.18 A body projected vertically upwards travels the same distance in the 5th and 6th seconds of its motion. Find the maximum height travelled by the body. ($g = 10m/s^2$)

Question ID : 16794316518

Ans ☒ 1. 250 m

☒ 2. 125 m

☒ 3. 50 m

☒ 4. 100 m

Q.19 A rod of length l is rotated about an axis perpendicular to its length and passing through the end with an angular velocity ω . A magnetic field of induction B is acting perpendicular to the plane of rotation. Find the e.m.f induced across the rod.

Question ID : 16794316511

Ans ☒ 1. $\frac{B\omega l}{2}$

☒ 2. $B\omega l$

☒ 3. $B\omega l^2$

☒ 4. $\frac{B\omega^2 l}{2}$

Q.20 A uniform rope is suspended from the roof of a building. The rope breaks if the tension in the rope is greater than 700 N. A man of mass 50 kg climbs up the rope. Find the maximum acceleration with which he can climb up the rope ($g = 10m/s^2$)

Question ID : 16794316521

Ans ☒ 1. $\frac{7}{2} m/s^2$

☒ 2. $2m/s^2$

☒ 3. $7m/s^2$

☒ 4. $4m/s^2$

Q.1 A spring of spring constant k is suspended from the roof and a block of mass m is suspended at the other end of the spring. The block is suddenly released. Find the maximum elongation produced in the spring.

Question ID : 16794316526

Ans

- ✓ 1. $\frac{2mg}{k}$
- ✗ 2. $\frac{mg}{2k}$
- ✗ 3. $\frac{mg}{k}$
- ✗ 4. $\frac{mg}{4k}$

Q.2 Two liquids of densities d_1 and d_2 are mixed in equal masses. Find the resultant density of the mixture.

Question ID : 16794316530

Ans

- ✓ 1. $\frac{2d_1d_2}{d_1 + d_2}$
- ✗ 2. $\sqrt{d_1d_2}$
- ✗ 3. $\frac{d_1d_2}{d_1 + d_2}$
- ✗ 4. $\frac{d_1 + d_2}{2}$

Q.3 Mass of the earth is M and its radius is R . An object of mass m is placed on the surface of earth. Find the work done in lifting the object through a height $\frac{R}{2}$ above the surface of earth.

Question ID : 16794316524

Ans

- ✓ 1. $\frac{GMm}{3R}$
- ✗ 2. $\frac{GMm}{2R}$
- ✗ 3. $\frac{GMm}{4R}$
- ✗ 4. $\frac{2GMm}{3R}$

Q.4 Three point masses each of mass m are placed at the three corners of an equilateral triangle of side x . Find the resultant force acting on any one particle at the corner.

Question ID : 16794316531

Ans

- ✗ 1. $\frac{Gm^2}{x^2}$
- ✗ 2. $\frac{3Gm^2}{x^2}$
- ✗ 3. Zero
- ✓ 4. $\frac{\sqrt{3}Gm^2}{x^2}$

Q.5 A solid sphere of radius b is having a concentric cavity of radius a . The sphere floats on the surface of water such that half of its volume sinks in water. Find the relative density of material of the sphere.

Question ID : 16794316527

Ans

- ✗ 1. $\frac{b^3}{b^3 - a^3}$

✓ 2. $\frac{b^3}{2(b^3 - a^3)}$

✗ 3. $\frac{b^3}{a^3}$

✗ 4. $\frac{2b^3}{b^3 - a^3}$

Q.6 At what height above the surface of earth weight of an object reduces by 1%. Radius of earth is 6400 km.

Question ID : 16794316522

Ans ✓ 1. 32 km

✗ 2. 3.2 km

✗ 3. 6.4 km

✗ 4. 64 km

Q.7 द्रव्यमान m तथा लंबाई l की एक समान चैन को समतल क्षैतिज मेज पर इस प्रकार रखा जाता है कि इसकी लंबाई का $\frac{1}{4}$ भाग मेज के किनारे से लटकता रहता है। चैन फिसलकर गिर जाती है। मेज के किनारे से चैन की लंबाई का आधा भाग लटकने पर चैन की गतिज ऊर्जा क्या होगी?

Question ID : 16794316525

Ans ✗ 1. $\frac{2}{15}mgl$

✓ 2. $\frac{3}{32}mgl$

✗ 3. $\frac{2}{32}mgl$

✗ 4. $\frac{mgl}{4}$

Q.8 Weight of an object in air is 10 gr. Weight of this object is when it is completely immersed in water is 8.5 gr. Find the volume of the object. Density of water is 1 gr/cm^3 :

Question ID : 16794316528

Ans ✗ 1. 0.75 cm^3

✗ 2. 4.5 cm^3

✓ 3. 1.5 cm^3

✗ 4. 3 cm^3

Q.9 A man standing in between two parallel cliffs produces a sound and first echo is heard after 2 seconds and second echo is heard after 3 second. If the speed of sound in air 340 m/s. Find the distance between two cliffs.

Question ID : 16794316529

Ans ✗ 1. 425 m

✗ 2. 340 m

✗ 3. 170 m

✓ 4. 850 m

Q.10 Mass of uniform circular ring is M and its radius is R . Find the maximum intensity of gravitation field on the axis of the ring

Question ID : 16794316523

Ans ✓ 1. $\frac{2}{3\sqrt{3}} \frac{GM}{R^2}$

✗ 2. $\frac{2GM}{R^2}$

☐ 3. $\frac{GM}{R^2}$

☐ 4. $\frac{3}{2\sqrt{2}} \frac{GM}{R^2}$

Q.11 One of the important aims of teaching mathematics to children is to comprehend mathematical language. Which of the following is not a part of mathematical language?

Question ID : 16794316537

- Ans
- ☐ 1. ! # * &
 - ☐ 2. ! # ; &
 - ☒ 3. < { } + =
 - ☐ 4. % ? [] !

Q.12 Which of the following emphasizes the role of rewards and punishment in learning?

Question ID : 16794316532

- Ans
- ☐ 1. Law of exercise
 - ☐ 2. Law of readiness
 - ☒ 3. Law of effect
 - ☐ 4. Law of practice

Q.13 स्कूलों में विभेदित आकलन इस बात का एक उदाहरण है कि कौन से कारक शामिल हैं?

Question ID : 16794316536

- Ans
- ☐ 1. शारीरिक अनुकूलन
 - ☒ 2. शैक्षणिक संशोधन
 - ☐ 3. व्यय
 - ☐ 4. सरल उपयोग

TEACHERS

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Q.14 Choose the best option from the following.

Question ID : 16794316538

Text books contain information about human rights, values and social norms. Thus we can call text books as:

- Ans
- ☐ 1. Knowledge body
 - ☐ 2. Repository of content
 - ☒ 3. Tools for social change
 - ☐ 4. Source of information

Q.15 Ajanta paintings are categorized as:

Question ID : 16794316533

- Ans
- ☐ 1. Intangible cultural heritage
 - ☒ 2. Tangible cultural heritage
 - ☐ 3. Environmental heritage
 - ☐ 4. Natural heritage

Q.16 एक प्रभावी समावेशी वातावरण अक्षमता के बिना बड़े समूह के लिए फायदेमंद है क्योंकि यह कई विशेषताओं को विकसित करता है। इनमें से कौन सा गैर-अक्षम समूह को शामिल करने का लाभ नहीं है?

Question ID : 16794316541

- Ans
- ☐ 1. दया
 - ☐ 2. सहनशीलता
 - ☐ 3. स्वीकार

✓ 4. विविधता

Q.17 Plant embryology can be studied under which branch of biology?

Question ID : 16794316535

- Ans
- ✗ 1. Microbiology
 - ✗ 2. Zoology
 - ✗ 3. Virology
 - ✓ 4. Botany

Q.18 What is Learning in one context and applying it to another called technically?

Question ID : 16794316534

- Ans
- ✗ 1. Applying learning
 - ✗ 2. Basic learning
 - ✓ 3. Transfer of learning
 - ✗ 4. Advanced learning

Q.19 निम्नलिखित में से एक के साथ बयान पूरा करें।

Question ID : 16794316539

शिक्षा में कला सहित बच्चों को स्पष्ट रूप से विकसित करने की अनुमति मिलती है:

- Ans
- ✗ 1. पठन कौशल
 - ✓ 2. अपनी स्वतंत्र अभिव्यक्ति
 - ✗ 3. लेखन कला
 - ✗ 4. शिक्षण कौशल

Q.20 According to Herbert Spencer education should aim at complete development. Which principle of curriculum development aligns with this ideology?

Question ID : 16794316540

- Ans
- ✗ 1. Principle of correlation
 - ✓ 2. Principle of including all activities
 - ✗ 3. Principle of flexibility
 - ✗ 4. Principle of future orientation