Q.1 Read the following information carefully and answer the question given below.

Question ID : 16794310310

Akash, Barani, Varun and Deepak are sitting around a table and discussing their trades.

(i) Akash sits opposite to tailor.
(ii) Barani sits right to the carpenter.
(iii) The cook is on the left of the plumber.
(iv) Deepak sits opposite to Varun.

What are the trades of Akash and Barani?

Ans
✗ 1. Tailor and Cook

✗ 2. Carpenter and Cook

✔ 3. Plumber and Tailor

✗ 4. Carpenter and Plumber

Q.2 You are given two statements I and II. Choose the correct comment about the statements from the options below.

Question ID : 16794310314

Statements:
I. The Government has imported large quantities of Toor Dal as per trade agreement with other countries.
II. The prices of Toor Dal in the domestic market have fallen sharply in the recent months.

Ans
✗ 1.
Statement II is the cause and Statement I is its effect.

✔ 2.
Statement I is the cause and Statement II is its effect.

✗ 3.
Both the Statements I & II are effects of some common cause.

✗ 4.
Both the Statements I & II are independent causes.

Q.3 'Chicken' is related to 'Vegetarian' in the same way as 'Liquor' is related to:
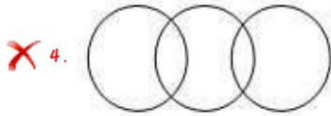
Question ID : 16794310308

Ans
✔ 1. Teetotaler

✗ 2. Insane

✗ 3. Drunkard

✗ 4. Foolish

Q.4 Which of the following diagrams correctly represents the relationship between Lion, Wolves and Animals?

Question ID : 16794310303

Ans
✗ 1.

✔ 2.

✘ 3.

✘ 4.

Q.5 Three years ago, the average age of a family of five members was 20 years. A baby having been born, the average age of the family is the same today. Find the age of the child.

Ans
✘ 1. 1 year

✔ 2. 5 years

✘ 3. 2 years

✘ 4. 6 years

Q.6 Select the option that is related to the third term in the same way as the second term is related to the first term.

AXE : GRIND : : PEN : _____

Ans
✘ 1. STORY

✘ 2. READ

✔ 3. WRITE

✘ 4. PAPER

Q.7 In the following question, there are two statements labelled as Assertion (A) and Reason (R). Choose the correct alternative about them.

Assertion (A):
Copper is used to make electrical wires.

Reason (R):
Copper has very high electrical resistance.

Ans
✘ 1. A is false but R is true

✔ 2. A is true but R is false

✘ 3.
Both A and R are true and R is not the correct explanation of A

✘ 4. Both A and R are false

Q.8 Find the missing number in the following series.

0, 7, 26, 63, _____, 215, 342

Ans
✘ 1. 112

✘ 2. 121

✘ 3. 125

✔ 4. 124

Q.9 If Kesav is the brother of the son of Kumar's son, then how is Kesav related to Kumar?

Ans
✘ 1. Son

✔ 2. Grandson

✗ 3. Brother

✗ 4. Father

Q.10 Choose the similar pair for the following.

$$\frac{12}{13} : 5 :: \underline{\hspace{2cm}} : \underline{\hspace{2cm}}$$

Ans

✗ 1. $\frac{15}{18}$, 6

✗ 2. $\frac{25}{36}$, 11

✗ 3. $\frac{10}{15}$, 3

✔ 4. $\frac{18}{31}$, 7

Q.11 You are given a statement and two arguments. Select the argument that is strong about the statement.

Statement:
Should fashionable dresses be banned in our country?

Arguments:
I. Yes. Fashion keeps changing, hence consumption of cloth increases.
II. No. Fashionable clothes are a person's self-expression and therefore his/her fundamental right.

Ans

✗ 1. Both arguments I and II are strong

✔ 2. Only argument II is strong

✗ 3. Only argument I is strong

✗ 4. Neither argument I nor II is strong

Q.12 Which one of the words given in the options CANNOT be formed by using the letters of the word given below, as many times as one wishes?

PRINCIPAL

Ans

✗ 1. APRIL

✗ 2. CRAP

✔ 3. PRINCE

✗ 4. PLAIN

Q.13 Arthi's college bus is facing North when it reaches her college. After starting from the bus stop in front of Arthi's house, it turned right twice and then left before reaching the college. What direction was the bus facing when it left the bus stop in front of Arthi's house?

Ans

✗ 1. East

✔ 2. West

✗ 3. North

✗ 4. South

Q.14

Find the missing number in the following.

25	36	81
9	49	16
4	64	1
10	?	14

Ans ✔ 1. 21
✘ 2. 36
✘ 3. 18
✘ 4. 25

Q.15 Find the missing character in the following.

A	D	H
K	N	R
F	?	M

Ans ✔ 1. I
✘ 2. L
✘ 3. H
✘ 4. G

Q.16 How many days will there be from 26th January 2004 to 1st May 2004 (both days included)?

Ans ✔ 1. 97
✘ 2. 95
✘ 3. 96
✘ 4. 89

Q.17 What will you do if you find an old man who has lost his road orientation? Choose most appropriate response.

Ans ✘ 1. Avoid the matter totally.

✘ 2. Help him with some amount.

✔ 3.
Collect the necessary information related to his destination and guide him accurately.

✘ 4.
Just show sympathy and give suggestion to contact the nearest police station.

Q.18 Gopal started from his house, walked 2 kms north, then 3 kms west, then 6 km south. How far away from his house is he now?

Ans ✔ 1. 5 kms
✘ 2. 3.5 kms
✘ 3. 3 kms

∧ 4. 5.5 kms

Q.19 You are given two statements and two conclusions. Identify which of the conclusions logically follow(s) from the statements.

Question ID : 16794310299

Statements:
All boats are poles.
No pole is house.

Conclusions:
I.   Some boats are houses.
II. Some houses are poles.

Ans   ✗ 1. Only conclusion I follows

    ✗ 2. Only conclusion II follows

    ✔ 3. Neither conclusion I nor II follows

    ✗ 4. Both conclusions I and II follow

Q.20 In a certain code ENGLAND is written as AOHMBOE. How is FRANCE written in that code?

Question ID : 16794310309

Ans   ✔ 1. BSBODF

    ✗ 2. BSBMDF

    ✗ 3. BSBOBF

    ✗ 4. GSBODF

Section : General Awareness

Q.1 In which year did ASEAN come into existence?

Question ID : 16794310334

Ans   ✗ 1. 1981

    ✗ 2. 1954

    ✗ 3. 1997

    ✔ 4. 1967

Q.2 According to Article 170 of the Indian Constitution, the total number of elected members in the Legislative Assembly of a State CANNOT be more than:

Question ID : 16794310325

Ans   ✗ 1. 492

    ✗ 2. 485

    ✔ 3. 500

    ✗ 4. 482

Q.3 Where is the Sundarbans National Park located?

Question ID : 16794310328

Ans   ✔ 1. West Bengal

    ✗ 2. Madhya Pradesh

    ✗ 3. Chhattisgarh

    ✗ 4. Uttarakhand

Q.4 As on 1 May 2018, India has _____ chess grandmasters.

Question ID : 16794310332

Ans   ✔ 1. 51

    ✗ 2. 64

    ✗ 3. 27

4. 41

Q.5 _____ has the power to make any law with respect to any matter not enumerated in the Concurrent List or State List.

Ans

✗ 1. The Attorney-General

✗ 2. The Prime Minister

✗ 3. The Legislature of a State

✔ 4. The Parliament

Question ID : 16794310323

Q.6 Volt is the SI unit of:

Ans

✗ 1. Electric Charge

✗ 2. Temperature

✔ 3. Electromotive Force

✗ 4. Pressure

Question ID : 16794310333

Q.7 The number of international members in the National Committee for Commemoration of the150[th] Birth Anniversary of Mahatma Gandhi in 2019 is:

Ans

✗ 1. 1

✗ 2. 7

✗ 3. 3

✔ 4. 9

Question ID : 16794310337

Q.8 The Chief Minister of Sikkim, Pawan Chamling, created history by becoming the longest-serving Chief Minister in India surpassing _____ 's record.

Ans

✗ 1. Biju Patnaik

✗ 2. Lalu Yadav

✔ 3. Jyoti Basu

✗ 4. Ramakrishna Hegde

Question ID : 16794310335

Q.9 Who among the following was the founder of the Maratha Empire?

Ans

✗ 1. Sambhaji Bhosale

✗ 2. Balaji Baji Rao

✔ 3. Chhatrapati Shivaji Maharaj

✗ 4. Baji Rao I

Question ID : 16794310319

Q.10 The first Chairman of the Council of States (Rajya Sabha) was:

Ans

✗ 1. Neelam Sanjiva Reddy

✗ 2. Dr Rajendra Prasad

✔ 3. Dr S Radhakrishnan

✗ 4. Indira Gandhi

Question ID : 16794310324

Q.11 The song 'Jana Gana Mana' was publicly sung for the first time at:

Ans

✗ 1. the Bombay Session of the Congress

✗ 2. the Lucknow Session of the Congress

Question ID : 16794310320

✗ 3. the Madras Session of the Congress

✔ 4. the Calcutta Session of the Congress

Q.12 Which is the state animal of Uttarakhand?

Ans ✔ 1. Musk deer

✗ 2. Spotted deer

✗ 3. Chinkara

✗ 4. Barasingha

Q.13 When was Indira Gandhi Institute of Development Research (IGIDR) inaugurated?

Ans ✔ 1. 1987

✗ 2. 1982

✗ 3. 1991

✗ 4. 1993

Q.14 The Union Ministry of Power has launched a Pilot Scheme for Procurement of Aggregate Power of _____ on a competitive basis for 3 years.

Ans ✔ 1. 2500 MW

✗ 2. 4000 MW

✗ 3. 1500 GW

✗ 4. 90000 W

Q.15 Who among the following lead the '1857 Revolt' at Lucknow?

Ans ✗ 1. Kunwar Singh

✗ 2. Lakshmibai

✔ 3. Begum Hazrat Mahal

✗ 4. General Bakht Khan

Q.16 Bihu songs are the folk songs of which of the following states?

Ans ✗ 1. Manipur

✔ 2. Assam

✗ 3. Nagaland

✗ 4. Mizoram

Q.17 With which country does Nagaland share its international border?

Ans ✔ 1. Myanmar

✗ 2. Nepal

✗ 3. China

✗ 4. Bhutan

Q.18 Which country was ranked the first in the Global Optimism Index released as part of the Grant Thornton's International Business Report (IBR) in the first quarter of 2018?

Ans ✗ 1. China

✗ 2. India

✔ 3. Austria

✗ 4. Japan

Q.19 Which of the following dance forms incorporates the most intricate makeup code, costume, face masks, headdress and brightly painted faces?

Question ID : 16794310330

Ans
✗ 1. Sattriya

✗ 2. Odissi

✗ 3. Kathak

✔ 4. Kathakali

Q.20 India finished _____ in the medal tally at the Commonwealth Games 2018.

Question ID : 16794310331

Ans
✗ 1. 7th

✗ 2. 11th

✗ 3. 4th

✔ 4. 3rd

Section : Arithmetic Ability

Q.1 On simplification $\dfrac{(49)^{\frac{1}{2}} \times (512)^{0.25} \times (8)^{0.25} \times (729)^{\frac{2}{3}} \div (64)^{\frac{4}{3}}}{(343)^{\frac{1}{3}} \times (256)^{-0.375} \times (81)^{0.5}}$ reduces to:

Question ID : 16794310340

Ans
✔ 1. 2.25

✗ 2. 1.5

✗ 3. 1.25

✗ 4. 2.5

Q.2 The value of $\dfrac{6\frac{1}{2} - \left[\frac{2}{5} \div \frac{6}{5} + \left(7 \div 1\frac{3}{4}\right)\right]}{\left(6\frac{2}{3} \div 2\frac{1}{2}\right) \times 3\frac{3}{4} \div \left(2\frac{1}{3} \text{of} 20\right) \times 1\frac{1}{6}}$ is:

Question ID : 16794310341

Ans
✗ 1. $4\dfrac{1}{3}$

✗ 2. $2\dfrac{1}{6}$

✔ 3. $8\dfrac{2}{3}$

✗ 4. $4\dfrac{2}{3}$

Q.3 The value of $\dfrac{(47.53)^2 + 95.06 \times 42.47 + (42.47)^2}{(38.25)^2 - 38.25 \times 276.5 + (138.25)^2}$ of $\dfrac{1}{16.2} \div \dfrac{0.0016 \times 0.25}{0.325 \times 0.005}$ of 6.5 is:

Question ID : 16794310339

Ans
✗ 1. $\dfrac{4}{25}$

$\times$ 2. $\dfrac{2}{25}$

$\checkmark$ 3. $\dfrac{1}{32}$

$\times$ 4. $\dfrac{1}{16}$

Q.4 The average of eight numbers is 64. The average of first two is 53, the average of next three is 68, 6th number is 4 greater than 7th number and 5 less than the 8th number. What is the average of 6th and 8th numbers?

Question ID : 16794310346

Ans
$\checkmark$ 1. 69.5

$\times$ 2. 69

$\times$ 3. 71.5

$\times$ 4. 74

Q.5 A is twice as efficient as B and together they can do a work in as much time as C and D together take to do it. If C and D can do the same work in 10 and 15 days respectively, then in how many days can A alone do the work?

Question ID : 16794310351

Ans
$\times$ 1. 12

$\times$ 2. 10

$\checkmark$ 3. 9

$\times$ 4. 8

Q.6 The compound interest on a sum at 15% p.a. at the end of 3 years is ₹ 4167, when the interest is compounded annually. What will be the simple interest on the same sum at the same rate and same period?

Question ID : 16794310348

Ans
$\times$ 1. ₹ 3640

$\checkmark$ 2. ₹ 3600

$\times$ 3. ₹ 3500

$\times$ 4. ₹ 3560

Q.7 A hollow sphere of outer radius 12 cm is cut into two equal hemispheres. The total surface area of one hemisphere is $1436\dfrac{2}{7}$ cm^2. What is the inner radius of the sphere? (use $\pi = \dfrac{22}{7}$)

Question ID : 16794310349

Ans
$\times$ 1. $5\dfrac{1}{4}$ cm

$\times$ 2. 6 cm

$\checkmark$ 3. 5 cm

$\times$ 4. $5\dfrac{1}{2}$ cm

Q.8 Nakul starts his journey from a place A and Sukil starts his journey from a place B, towards each other. If the speeds of Nakul and Sukil are 16 km/h and 25 km/h respectively and time taken by Nakul to reach B, after crossing Sukil on the way, is $3\dfrac{1}{8}$ hours, then how much time (in hours) will Sukil take to reach A after crossing Nakul?

Question ID : 16794310350

Ans
$\times$ 1. $1\dfrac{1}{4}$

$\times$ 2. $1\dfrac{3}{4}$

$\checkmark$ 3. $1\dfrac{17}{25}$

$\times$ 4. $1\dfrac{16}{25}$

Q.9 A number consist of two digits. The digit at tens' place exceeds the digit at units' place by 4 and the sum of digits is one-seventh of the number. What is the remainder when the number is divided by the sum of the digits of the number?

Ans

✗ 1. 4

✔ 2. 0

✗ 3. 3

✗ 4. 5

Q.10 When each of 3092, 4103 and 5451 is divided by the greatest number a, the remainder in each case is b. What is the value of $(a + b)$?

Ans

✗ 1. 357

✔ 2. 396

✗ 3. 376

✗ 4. 337

Q.11 Income of A is equal to 70% income of B and expenditure of A is equal to 60% of B's expenditure. If A's expenditure is equal to 50% of B's income, then the ratio of savings of A to that of B is?

Ans

✗ 1. 5 : 7

✗ 2. 5 : 6

✔ 3. 6 : 5

✗ 4. 7 : 5

Q.12 A shopkeeper labelled the price of an article so as to earn a profit of 30% on its cost. He then sold it by offering a discount of x % on the labelled price. If his actual profit is 17%, then the value of x is:

Ans

✗ 1. 8

✗ 2. 15

✗ 3. 12

✔ 4. 10

Q.13 Let x be the least multiple of 17, which leaves a remainder 2 in each case when divided by any of the numbers 4, 6, 8, 10, 12 and 14. What is the sum of digits of x ?

Ans

✔ 1. 23

✗ 2. 25

✗ 3. 32

✗ 4. 19

Q.14 Three fractions are written in ascending order. If the largest fraction is divided by the smallest, the result is $\frac{5}{2}$ which exceeds the middle fraction by $\frac{7}{4}$. If the sum of three fractions is $1\frac{11}{12}$, then what is the difference between the largest and smallest fractions?
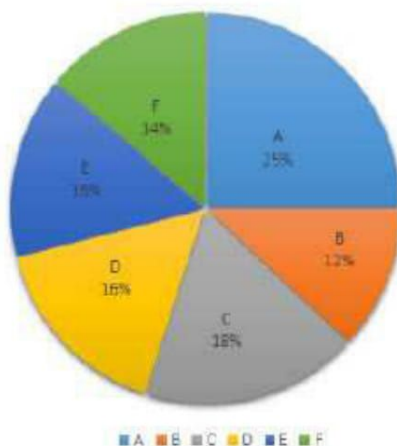
Ans

✗ 1. $\dfrac{5}{12}$

✗ 2. $\dfrac{1}{4}$

✔ 3. $\dfrac{1}{2}$

✗ 4. $\dfrac{7}{12}$

Comprehension :

Study the following pie chart and table and answer the question that follows.

Percentage wise breakup of Students in different schools in 2008

Ratio of Boys and Girls

School	Percentage of students whose age is 10 years or less
A	40
B	38
C	45
D	55
E	60
F	70

■A ■B ■C ■D ■E ■F

SubQuestion No : 15

Q.1
5

If the total number of students in all the six schools was 15800, then by what percent, the number of students in school A, of age above 10 years, was more than the number of students in school E having age less than or equal to 10 years?
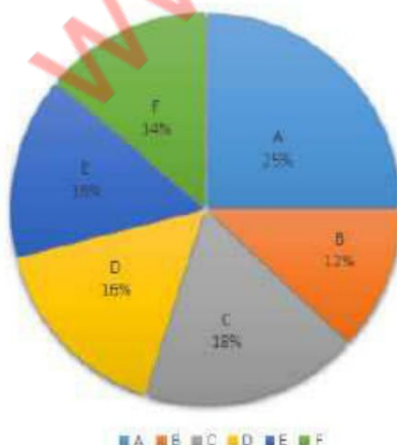
Ans ✗ 1. 20%

✔ 2. $66\dfrac{2}{3}\%$

✗ 3. $33\dfrac{1}{3}\%$

✗ 4. 30%

Comprehension:

Study the following pie chart and table and answer the question that follows.

Percentage wise breakup of Students in different schools in 2008

Ratio of Boys and Girls

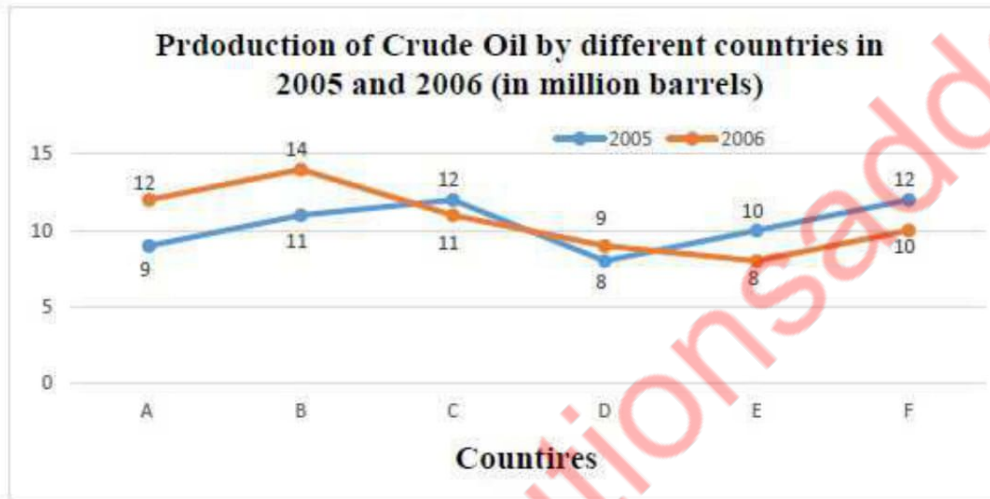| School	Percentage of students whose age is 10 years or less
A	40
B	38
C	45
D	55
E	60
F	70

■A ■B ■C ■D ■E ■F

SubQuestion No : 16

Q.1
6
If the number of students in B and C together in 2008 was 4500, what will be the difference between the number of students in D above 10 years and that in F below or equal to 10 years age?

Ans ✔ 1. 390

✗ 2. 285

✗ 3. 270

✗ 4. 495

Comprehension:

Study the following graph and answer the question that follows.

Prdoduction of Crude Oil by different countries in 2005 and 2006 (in million barrels)
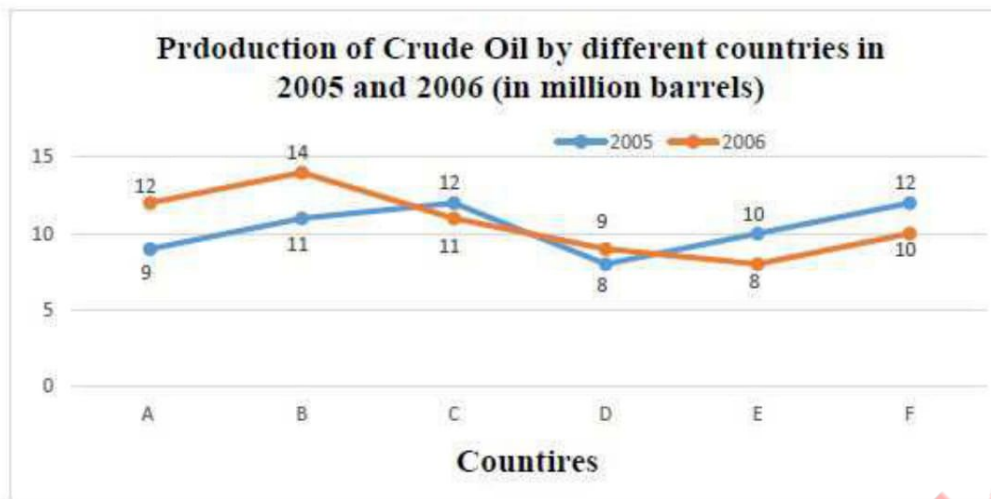
Countires

SubQuestion No : 17

Q.1
7
The number of countries in which the amount of production of crude oil in 2006 was more than 20% as compared to the production in 2005, is:

Ans ✔ 1. 3

✗ 2. 5

✗ 3. 2

✗ 4. 4

Comprehension:

Study the following graph and answer the question that follows.

Prdoduction of Crude Oil by different countries in 2005 and 2006 (in million barrels)
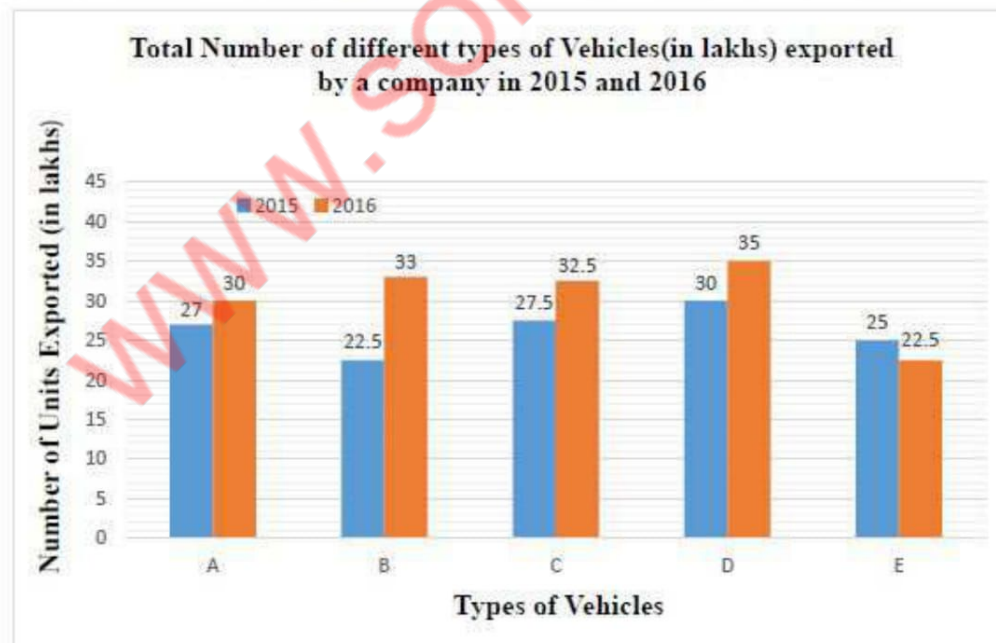
Countires

SubQuestion No : 18

Q.18 The production of crude oil by countries A and F together in 2006 is x% less than the total production of crude oil by B, C and D together in 2005, where x is equal to:

Ans

✔ 1. 20

✘ 2. 25

✘ 3. 30

✘ 4. 22

Comprehension:

Study the following bar graph and answer the question that follows.

Total Number of different types of Vehicles(in lakhs) exported by a company in 2015 and 2016
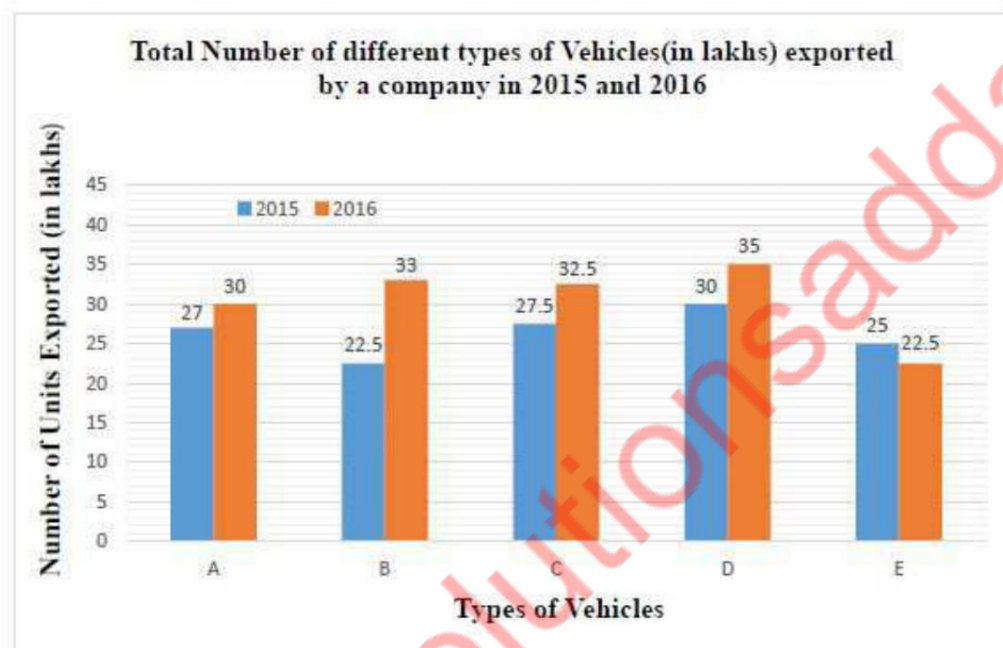
Types of Vehicles

SubQuestion No : 19

Q.19

The average number of units of A, B and D type vehicles exported in 2015 is *x*% less than that of A, B and E type vehicles in 2016. What is the value of x (nearest to an integer)?

Ans　✗　1.　5

　　　✗　2.　8

　　　✔　3.　7

　　　✗　4.　6

Comprehension:

Study the following bar graph and answer the question that follows.

Total Number of different types of Vehicles(in lakhs) exported by a company in 2015 and 2016

SubQuestion No : 20

Q.2 0　Total number of units of C and E type vehicles exported in 2016 is what percent more than that of D type vehicle exported in 2015?

Ans

　✔　1.　$83\frac{1}{3}$

　✗　2.　80

　✗　3.　$66\frac{2}{3}$

　✗　4.　75

Section : General English

Q.1　Select the most appropriate synonym of the given word.

EMULATE

Ans

✅ 1. imitate
❌ 2. pursue
❌ 3. forgive
❌ 4. forget

Q.2 Select the sentence structure that is meaningful and grammatically correct.

Ans

Question ID : 16794310373

✅ 1.
The museum displays a variety of costumes and textiles produced in Ladakh.

❌ 2.
Produced in Ladakh the museum displays a variety of costumes and textiles.

❌ 3.
The museum displays produced in Ladakh a variety of costumes and textiles.

❌ 4.
A variety of costumes and textiles the museum displays produced in Ladakh.

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

Question ID : 16794310371

There is a lot of sunshine on this island. The _____ is very good.

Ans

✅ 1. climate
❌ 2. season
❌ 3. environment
❌ 4. atmosphere

Q.4 Select the word which is NOT an antonym of another word by way of adding a prefix.

Ans

Question ID : 16794310368

✅ 1. dissection
❌ 2. disquiet
❌ 3. disrespect
❌ 4. dissatisfaction

Q.5 Select the most appropriate option to fill in the blank. Answer suitably according to the given question.

Question ID : 16794310364

Will you tell the neighbours you will be away for two weeks?
I _____ them already.

Ans

❌ 1. will have told
✅ 2. have told
❌ 3. tell
❌ 4. will tell

Q.6 Select the most appropriate option to fill in the blanks.

Question ID : 16794310361

The Supreme Court said that _____ Archaeological Survey of India "will have to be thrown out of _____ picture" if the Taj Mahal has to be saved.

Ans

❌ 1. the, a
✅ 2. the, the
❌ 3. an, the
❌ 4. no word required, a

Q.7

Question ID : 16794310372

Fill in the blank with the most appropriate option.

She told the P.A. that she had an _____ to see the M.D. at 3:00 p.m.

Ans ✗ 1. arrangement

✗ 2. engagement

✔ 3. appointment

✗ 4. agreement

Q.8 Select the most appropriate option to fill in the blank.

This flyer doesn't match the approved design. _____, you are using sub-standard material.

Ans ✗ 1. However

✗ 2. Otherwise

✔ 3. Besides

✗ 4. Nevertheless

Q.9 Select the sentence structure that is meaningful and grammatically correct.

Ans ✗ 1.

An integral part of cooking good cookware is and can have far-reaching impact on health.

✔ 2.

Good cookware is an integral part of cooking and can have far-reaching impact on health.

✗ 3.

Cookware can have an integral impact on health and is far-reaching part of good cooking.

✗ 4.

Cooking is an integral part of good cookware and can have far-reaching impact on health.

Q.10 Select the option that gives the most appropriate meaning of the underlined idiom in the given context.

After his retirement, he tried his hand at farming.

Ans ✗ 1. stopped

✗ 2. worked

✔ 3. attempted

✗ 4. loved

Q.11 Fill in the blank with the most appropriate phrase.

She _____ talking whether someone is listening or not.

Ans ✗ 1. gets on

✔ 2. keeps on

✗ 3. looks on

✗ 4. puts on

Q.12 Select the sentence structure that is meaningful and grammatically correct.

Ans ✗ 1.

The plane belonged to the Cubana Airlines which has taken many of its aging planes out of service that crashed yesterday.

✗ 2.

The Cubana Airlines which crashed yesterday belonged to the plane that has taken many of its aging planes out of service.

∧ 3.
The plane belonged to the Cubana Airlines which crashed yesterday that has taken many of its aging planes out of service.

✓ 4.
The plane that crashed yesterday belonged to the Cubana Airlines, which has taken many of its aging planes out of service.

Q.13 Select the most appropriate synonym of the given word.

LOSE

Ans
✓ 1. misplace

✗ 2. hide

✗ 3. find

✗ 4. search

Q.14 Select the most appropriate option to fill in the blank.

The pollution in the Yamuna has caused insect and algae infestation _____ the Taj Mahal and other monuments sitting on its bank.

Ans
✗ 1. for

✓ 2. on

✗ 3. behind

✗ 4. above

Q.15 Select the most appropriate antonym of the given word.

DOUBTFUL

Ans
✗ 1. hesitant

✓ 2. confident

✗ 3. nervous

✗ 4. unsure

Comprehension:

Read the following passage and answer the questions that follow.

Used as a route between Ladakh and Kashmir, the Zojila mountain pass is located at a staggering 11,580 ft above sea level and is enclosed by Kashmir valley on one side and Drass valley on the other. The narrow road is part of the 275-mile long route from Srinagar to Leh. It is said to be one of the most dangerous passes in the world, not just because it is extremely narrow and has no barriers, but also because of the vicious winds and heavy snowfall that often affect the region.

The route is a lifeline that keeps the people of Ladakh in touch with the rest of the world, but it is often closed during winter due to heavy snow, which can be anywhere between 15 and 24 m deep.

The Union Cabinet on Wednesday approved the construction of Asia's longest bi-directional Zojila Pass tunnel at an estimated cost of ` 6,089 crore. The Cabinet Committee on Economic Affairs gave its go-ahead to the 14.2-km-long tunnel project in Jammu and Kashmir to provide all-weather connectivity between Srinagar, Kargil and Leh, which remains cut off from the rest of India during winters due to heavy snowfall.

"Zojila tunnel will be the longest bi-directional tunnel in Asia. (Its) construction period (will be) seven years because of a very difficult terrain where in some areas' temperature dips to minus 45° C. The tunnel shall be an engineering marvel as a first of its kind in such a geographical area," road transport and highways minister Nitin Gadkari said.

Defence forces have to face hard times ensuring supplies to border posts during winters. "This pass is most strategic for the entire Kargil sector which has seen intrusion and war in the past," Gadkari said.
"The project would enhance the safety of travellers crossing Zojila Pass and reduce the travel time from 3.5 hours to 15 minutes," he added.
The main objective of the project is to provide all weather connectivity to the strategically important Leh region in Jammu and Kashmir, which at the moment is limited to at best six months because of snow on the passes and threat of avalanches.

The government said that on completion, it will lead to enormous boost in employment as local businesses get linked to national market and the beautiful region is able to receive round the year tourist traffic.
It will further increase the employment potential for the local labourers for the project activities, it added.

Q.16 The tunnel will give an economic boost to the Ladakh region. Which of the following is NOT related to economy?

Ans ✗ 1.

Local businesses will get linked to national market.

✗ 2. Employment potential will be generated for the local labourers for the project activity

✗ 3.

Region will be able to receive round the year tourist traffic.

✔ 4.

Supplies to border posts during winters will be ensured.

Comprehension :

Read the following passage and answer the questions that follow.

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The government said that on completion, it will lead to enormous boost in employment as local businesses get linked to national market and the beautiful region is able to receive round the year tourist traffic.
It will further increase the employment potential for the local labourers for the project activities, it added.

Q.17 Zojila Pass is a part of road between:

Ans ✗ 1. Kargil and Leh

✗ 2. Jammu and Leh

✗ 3. Drass and Leh

✔ 4. Srinagar and Leh

Comprehension :

Read the following passage and answer the questions that follow.

Used as a route between Ladakh and Kashmir, the Zojila mountain pass is located at a staggering 11,580 ft above sea level and is enclosed by Kashmir valley on one side and Drass valley on the other. The narrow road is part of the 275-mile long route from Srinagar to Leh. It is said to be one of the most dangerous passes in the world, not just because it is extremely narrow and has no barriers, but also because of the vicious winds and heavy snowfall that often affect the region.

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It will further increase the employment potential for the local labourers for the project activities, it added.

Q.1
8   Zojila Pass is one of the most dangerous passes in
     the world. Which of the following is NOT a reason
     for it?

Ans   ✗ 1.

     It is affected by vicious winds and heavy snowfall.

       ✔ 2. It is situated at a height of 11,580 m.

       ✗ 3. It has no barriers.

       ✗ 4. It is extremely narrow.

Comprehension :

Read the following passage and answer the questions that follow.

Used as a route between Ladakh and Kashmir, the Zojila mountain pass is located at a staggering 11,580 ft above sea level and is enclosed by Kashmir valley on one side and Drass valley on the other. The narrow road is part of the 275-mile long route from Srinagar to Leh. It is said to be one of the most dangerous passes in the world, not just because it is extremely narrow and has no barriers, but also because of the vicious winds and heavy snowfall that often affect the region.

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Q.19 The proposed Zojila Pass Tunnel will provide several advantages:

A. It will reduce travel time from the present 3.5 hours to 15 minutes.
B. The route will remain open throughout the year.
C. It will be a one-way tunnel.

Which of the above advantages are true?

Ans ✗ 1. A, B and C all are true

✗ 2. A and C are true

✗ 3. B and C are true

✔ 4. A and B are true

Comprehension:

Q.2
0 After reading the passage, one can infer that the passage is:

Ans ✔ 1.

a news item on the government's plan to make the Zojila Pass Tunnel

✘ 2.

an article on the strategic importance of the Zojila Pass

✘ 3.

a report on the conditions prevailing at the Zojila Pass

✘ 4. a general information article on Zojila Pass

Section : General Hindi

Comprehension :

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

हिंदी उपन्यासों पर फ्रायड के मनोविश्लेषणवादी विचारों का प्रभाव पड़ा। इलाचंद्र जोशी और अज्ञेय के उपन्यासों पर मनोविश्लेषणवाद के प्रभाव को पूर्णत: स्वीकार नहीं किया जा सकता। वैसे भी रचना में कोई वाद पूरी तरह घटित नहीं होता। जोशी जी पर फ्रायड, एडलर, युंग तीनों का प्रभाव है, यद्यपि वे एडलर के सिद्धांत से अधिक प्रभावित होते हैं। जोशी जी मनोविश्लेषण शास्त्र से प्रभावित होते हुए भी अपने उपन्यासों में सामाजिक विषमता को नजरअंदाज नहीं करते। इलाचंद्र जोशी के उल्लेखनीय उपन्यास संन्यासी (1941) और पर्दे की रानी (1941) हैं। अज्ञेय के प्रसिद्ध उपन्यास शेखर : एक जीवनी का प्रथम भाग 1941 में और दूसरा भाग 1944 में प्रकाशित हुआ। शेखर आतंकवाद की छाया में लिखा हुआ एक ऐसा उपन्यास है जिस पर मनोविश्लेषण शास्त्र के प्रभाव के साथ समाज के परिप्रेक्ष्य में व्यक्ति और उसके विचारों को देखा गया है। शेखर : एक जीवनी व्यक्ति की निजता को सुरक्षित बनाए रखने का प्रतिपादक उपन्यास है। इसका नायक केवल अपना प्रतिनिधित्व करता है, उसकी चेष्टाएँ भी काफी असामान्य हैं। कुल मिलाकर यह उपन्यास भी नैतिकता के एक नए और बहुत कुछ निजी या समाजनिरपेक्ष मानदंड की माँग करता है।

Q.1 मनोविश्लेषण सिद्धान्त का संबंध किससे नहीं है?

Ans ✗ 1. फ्रायड

✗ 2. युंग

✗ 3. एडलर

✔ 4. मार्क्स

Comprehension :

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 2

Q.2 इलाचन्द्र जोशी का उपन्यास है:

Question ID : 16794310385

Ans ✔ 1. संन्यासी

✗ 2. त्यागपत्र

✗ 3. शेखर : एक जीवनी

✗ 4. गोदान

Comprehension :

नीचे दिये गए गद्याश को पढ़कर पूछे गयें प्रश्नो के उत्तर दीजिए।

हिंदी उपन्यासों पर फ़ायड के मनोविश्लेषणवादी विचारों का प्रभाव पड़ा। इलाचंद्र जोशी और अज्ञेय के उपन्यासों पर मनोविश्लेषणवाद के प्रभाव को पूर्णत: स्वीकार नहीं किया जा सकता। वैसे भी रचना में कोई वाद पूरी तरह घटित नहीं होता। जोशी जी पर फ़ायड, एडलर, युंग तीनों का प्रभाव है, यद्यपि वे एडलर के सिद्धांत से अधिक प्रभावित होते हैं। जोशी जी मनोविश्लेषण शास्त्र से प्रभावित होते हुए भी अपने उपन्यासों में सामाजिक विषमता को नजरअंदाज नहीं करते। इलाचंद्र जोशी के उल्लेखनीय उपन्यास संन्यासी (1941) और पर्दे की रानी (1941) हैं। अज्ञेय के प्रसिद्ध उपन्यास शेखर : एक जीवनी का प्रथम भाग 1941 में और दूसरा भाग 1944 में प्रकाशित हुआ। शेखर आतंकवाद की छाया में लिखा हुआ एक ऐसा उपन्यास है जिस पर मनोविश्लेषण शास्त्र के प्रभाव के साथ समाज के परिप्रेक्ष्य में व्यक्ति और उसके विचारों को देखा गया है। शेखर : एक जीवनी व्यक्ति की निजता को सुरक्षित बनाए रखने का प्रतिपादक उपन्यास है। इसका नायक केवल अपना प्रतिनिधित्व करता है, उसकी चेष्टाएँ भी काफी असामान्य हैं। कुल मिलाकर यह उपन्यास भी नैतिकता के एक नए और बहुत कुछ निजी या समाजनिरपेक्ष मानदंड की माँग करता है।

SubQuestion No : 3

Q.3 'शेखर : एक जीवनी' क्या है?

Question ID : 16794310386

Ans
✗ 1. कहानी
✗ 2. आत्मकथा
✓ 3. उपन्यास
✗ 4. जीवनी

Comprehension :

नीचे दिये गए गद्यांश को पढ़कर पूछे गये प्रश्नों के उत्तर दीजिए।

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SubQuestion No : 4

Q.4 इलाचन्द्र जोशी किससे अधिक प्रभावित लगते हैं?

Question ID : 16794310384

Ans

✗ 1. मार्क्स

✗ 2. युंग

✔ 3. एडलर

✗ 4. फ्रायड

Comprehension :

नीचे दिये गए गद्यांश को पढ़कर पूछे गयें प्रश्नों के उत्तर दीजिए।

हिंदी उपन्यासों पर फ्रायड के मनोविश्लेषणवादी विचारों का प्रभाव पड़ा। इलाचंद्र जोशी और अज्ञेय के उपन्यासों पर मनोविश्लेषणवाद के प्रभाव को पूर्णत: स्वीकार नहीं किया जा सकता। वैसे भी रचना में कोई वाद पूरी तरह घटित नहीं होता। जोशी जी पर फ्रायड, एडलर, युंग तीनों का प्रभाव है, यद्यपि वे एडलर के सिद्धांत से अधिक प्रभावित होते हैं। जोशी जी मनोविश्लेषण शास्त्र से प्रभावित होते हुए भी अपने उपन्यासों में सामाजिक विषमता को नजरअंदाज नहीं करते। इलाचंद्र जोशी के उल्लेखनीय उपन्यास संन्यासी (1941) और पर्दे की रानी (1941) हैं। अज्ञेय के प्रसिद्ध उपन्यास शेखर : एक जीवनी का प्रथम भाग 1941 में और दूसरा भाग 1944 में प्रकाशित हुआ। शेखर आतंकवाद की छाया में लिखा हुआ एक ऐसा उपन्यास है जिस पर मनोविश्लेषण शास्त्र के प्रभाव के साथ समाज के परिप्रेक्ष्य में व्यक्ति और उसके विचारों को देखा गया है। शेखर : एक जीवनी व्यक्ति की निजता को सुरक्षित बनाए रखने का प्रतिपादक उपन्यास है। इसका नायक केवल अपना प्रतिनिधित्व करता है, उसकी चेष्टाएँ भी काफी असामान्य हैं। कुल मिलाकर यह उपन्यास भी नैतिकता के एक नए और बहुत कुछ निजी या समाजनिरपेक्ष मानदंड की माँग करता है।

SubQuestion No : 5

Q.5 'शेखर : एक जीवनी' के बारे में क्या असत्य है?

Question ID : 16794310387

Ans

✗ 1. इस पर मनोविश्लेषण शास्त्र का प्रभाव है।

✗ 2. यह दो भागों में प्रकाशित हुआ।

✗ 3.
यह व्यक्ति की निजता को सुरक्षित रखने का प्रतिपादन करता है।

✔ 4.
इसका नायक समाज का प्रतिनिधित्व करता है।

Q.6 निम्न में से कौन-सा शब्द स्त्रीलिंग है?

Question ID : 16794310394

Ans

✗ 1. नियम

✗ 2. विभाग

✗ 3. धन

✔ 4. रक्षा

Q.7

Question ID : 16794310393

निम्न में कौन-सा शब्द विशेषण है?

Ans ✗ 1. मित्रता

✗ 2. नींद

✗ 3. राज्य

✔ 4. भारी

Q.8 'सज्जन' का संधि विच्छेद होगा:

Question ID : 16794310391

Ans ✗ 1. सत् + अजन

✗ 2. स + अज्जन

✗ 3. सज् + जन

✔ 4. सत् + जन

Q.9 'प्रतिमान' में समास है:

Question ID : 16794310392

Ans ✗ 1. द्वंद्व

✗ 2. तत्पुरुष

✗ 3. द्विगु

✔ 4. अव्ययीभाव

Q.10 'बर्बर' का विलोम होगा:

Question ID : 16794310402

Ans ✗ 1. पशु

✔ 2. सभ्य

✗ 3. सुंदर

✗ 4. जंगली

Q.11 'मैंने खाना खाया और मेरी भूख मिट गयी।' यह किस प्रकार का वाक्य है?

Question ID : 16794310395

Ans ✔ 1. संयुक्त वाक्य

✗ 2. मिश्र वाक्य

✗ 3. उपवाक्य

✗ 4. सरल वाक्य

Q.12 'जल' का पर्यायवाची नहीं है:

Question ID : 16794310399

Ans ✗ 1. सलिल

✗ 2. नीर

✗ 3. अंबु

✔ 4. रवि

Q.13 'यदि तुम खाओ तो मैं भी खाऊँ।' यह वाक्य है:

Ans
✗ 1. निषेधवाचक
✔ 2. संकेतवाचक
✗ 3. विस्मयवाचक
✗ 4. प्रश्नवाचक

Q.14 निम्न में तद्भव शब्द है:

Ans
✔ 1. नींद
✗ 2. परीक्षा
✗ 3. स्पर्श
✗ 4. पत्र

Q.15 'चन्द्र' का पर्यायवाची है:

Ans
✔ 1. सुधाकर
✗ 2. प्रभाकर
✗ 3. दिनकर
✗ 4. दिवाकर

Q.16 निम्न में तत्सम शब्द है:

Ans
✗ 1. तीखा
✗ 2. तालाब
✗ 3. तिनका
✔ 4. योगी

Q.17 'उसने मुक्तहस्त से धन लुटाया।' वाक्य में अशुद्ध अंश है:

Ans
✗ 1. लुटाया।
✔ 2. मुक्तहस्त से
✗ 3. धन
✗ 4. उसने

Q.18 'आयात' का विलोम है:

Ans
✗ 1. अप्रवास
✗ 2. समाप्त
✔ 3. निर्यात
✗ 4. प्रवास

Q.19 'अप्रत्याशित' का अर्थ है:

Question ID : 16794310390

Ans
- ✗ 1. आशा
- ✗ 2. निराशा
- ✔ 3. जिसकी पहले से कोई आशा न हो
- ✗ 4. जिसकी आशा की गई हो

Q.20 'समुद्र' का पर्यायवाची है:

Question ID : 16794310400

Ans
- ✗ 1. नीरद
- ✔ 2. नीरधि
- ✗ 3. सरोज
- ✗ 4. वारिद

Section : Subject Related

Q.1 Which of the following is FALSE with respect to circuit-switched networks?

Question ID : 16794310404

Ans
- ✗ 1.
  Each of the physical links in the circuit-switched network within switched network is divided into n channels
- ✔ 2.
  In a circuit-switched network, the resources need not be reserved during the setup phase
- ✗ 3.
  A circuit-switched network is made of a set of switches connected by physical links
- ✗ 4.
  In a circuit-switched network, the resources remain dedicated for the entire duration of data transfer

Q.2 HTML lets us use only _____ characters.

Question ID : 16794310411

Ans
- ✗ 1. EBCDIC
- ✗ 2. ANSI
- ✔ 3. ASCII
- ✗ 4. AMIS

Q.3 Which of the following agency started showing interest, in 1960s, in finding a way to connect computers so that researchers could share their ideas?

Question ID : 16794310403

Ans
- ✗ 1.
  Association for Computing Machinery(ACM)
- ✔ 2.
  Advanced Research Projects Agency(ARPA)
- ✗ 3. Electronic Industries Association(EIA)
- ✗ 4.
  Federal Communications Commission(FCC)

Q.4 Which of the following is NOT a propagation mode for propagating light along optical channels?

Question ID : 16794310406

Ans
- ✗ 1. Multimode

✔ 2. Directory

✘ 3. Structure

✘ 4. File

Q.11 Which of the following is a part of the classic process that keeps track of code execution within the framework?

Question ID : 16794310415

Ans ✘ 1. Program

✘ 2. Process

✘ 3. Algorithm

✔ 4. Thread

Q.12 Which of the following is a multipoint networking topology?

Question ID : 16794310409

Ans ✔ 1. Bus

✘ 2. Ring

✘ 3. Star

✘ 4. Mesh

Q.13 Identify the true statement(s):

(i)   Fixed partition memory strategy suffers from external fragmentation.
(ii) Variable partition memory strategy suffers from internal fragmentation.
(iii) In variable partition memory strategy, when the system is initialised, the primary memory is configured as a single large block.

Question ID : 16794310421

Ans ✘ 1. Only (i) and (ii)

✘ 2. Only (ii)

✘ 3. Only (i)

✔ 4. Only (iii)

Q.14 Which of the following is a standard for specifying any kind of information on the internet?

Question ID : 16794310410

Ans ✘ 1. HTML

✘ 2. CGI

✘ 3. Cookies

✔ 4. URL

Q.15 Which of the following occurs between two processes because the outcome of the computation depends on the relative times that the two processes execute their respective critical section?

Question ID : 16794310419

Ans ✘ 1. Deadlock

✔ 2. Race condition

✘ 3. Synchronisation

✘ 4. Abstraction

Q.16 Which of the following is true with respect to deadlock avoidance?

Question ID : 16794310420

Ans ✘ 1.

The bakery algorithm is used to deal with deadlock avoidance.

✘ 2.

When a process is created in a deadlock, it must declare its minimum claim.

✘ 3.

The avoidance strategy depends on additional information about short-term resource needs.

✔ 4.
With the deadlock avoidance approach, the system is always kept in a safe state.

Q.17 Which of the following processor schedulers selects a job currently loaded in the memory and allocates a processor to it?

Question ID : 16794310414

Ans ✘ 1. Enqueuer

✘ 2. Medium term scheduler

✘ 3. Context switcher

✔ 4. Short-term scheduler

Q.18 Which of the following filters the messages based on contents at the application layer?

Question ID : 16794310412

Ans ✔ 1. Proxy firewall

✘ 2. Gateway

✘ 3. Packet-filter firewall

✘ 4. Bridge

Q.19 Consider the following processes with burst time.

Process	burst time
0	350
1	125
2	475
3	250
4	75

What will be the average turnaround time and the average waiting time according to the Shortest Job Next (SJN) scheduling algorithm?

Question ID : 16794310418

Ans ✘ 1. 1044, 120

✔ 2. 560, 305

✘ 3. 735, 480

✘ 4. 300, 1050

Q.20 Which of the following protocols is a reliable stream transport protocol?

Question ID : 16794310408

Ans ✔ 1. TCP

✘ 2. IGMP

✘ 3. ARP

✘ 4. ICMP

Section : Subject Related

Q.1 Which of the following is NOT a common field found in instruction formats?

Question ID : 16794310431

Ans ✘ 1. An address field

✔ 2. A sign field

✘ 3. A mode field

✘ 4. The opcode field

Q.2 Which of the following is a characteristic of a RISC processor?

Question ID : 16794310435

Ans ✘ 1. Large variety of addressing modes

✘ 2. Large number of instructions

✗ 3. Variable length instruction formats

✔ 4. Single-cycle instruction execution

Q.3 Which of the following modes of transfer is needed for fast devices such as magnetic disks?

Ans
✗ 1. Cycle stealing

✔ 2. Burst transfer

✗ 3. Programmed transfer

✗ 4. Daisy chaining

Q.4 Select true or FALSE from the below sentences.

(i)   a private member function can only be called by another function that is a member of its class
(ii) an object can invoke a private function using the dot operator

Ans
✗ 1. (i) false (ii) true

✗ 2. (i) false (ii) false

✗ 3. (i) true (ii) true

✔ 4. (i) true (ii) false

Q.5 Which of the following in a microprogrammed control unit is a next address generator?

Ans
✗ 1. Pipeline register

✗ 2. Micro program controller

✗ 3. Control address register

✔ 4. Micro program sequencer

Q.6 What will be the output if the following C++ program?

```cpp
#include<iostream.h>
using namespace std;
class example
{
    public:
    int a;
    example *operator->( )
    {return this;}
};
int main( )
{
example ob;
ob->a=10;
cout<<ob.a<<" " <<ob->a;
return 0;
}
```

Ans
✗ 1. 11 11

✔ 2. 10 10

✗ 3. Garbage value

✗ 4. Run time error

Q.7 Which of the following, associated with a friend class, can directly access private and protected data?

Ans

✗ 1. Derived class

✗ 2. Base class

✔ 3. Member functions

✗ 4. Non-member functions

Q.8 Which of the following memory units communicates directly with the CPU?

Ans

✗ 1. Secondary memory

✗ 2. Auxiliary memory

✗ 3. Tertiary memory

✔ 4. Main memory

Q.9 A floating point number is said to be normalised if:

Ans

✔ 1.
The most significant digit of the mantissa is non-zero

✗ 2.
The most significant digit of the mantissa is zero

✗ 3.
The least significant digit of the mantissa is zero

✗ 4.
The least significant digit of the mantissa is non-zero

Q.10 A memory module with a printed circuit board on which DRAM chips are mounted on both sides is called:

Ans

✗ 1. Dual Outline Memory Module (DOMM)

✔ 2. Dual Inline Memory Module (DIMM)

✗ 3.
Floating-Gate Metal Oxide Semi-Conductor

✗ 4. Binary Inline Memory Module (BIMM)

Q.11 Which of the following is NOT a CPU organisation type with respect to instruction formats?

Ans

✔ 1. Queue organisation

✗ 2. Stack organisation

✗ 3. Single accumulator organisation

✗ 4. General register organisation

Q.12 In which of the following cache write methods for updating main memory, only cache location is updated during write operation?

Ans

✗ 1. Write-front

✗ 2. Write-up

✗ 3. Write-through

✔ 4. Write-back

Q.13 Which of the following is the act of representing essential features without including the background details or explanations?

Ans   ✗ 1. Data encapsulation

      ✗ 2. Inheritance

      ✗ 3. Dynamic binding

      ✔ 4. Data abstraction

Q.14 Which of the following features of object-oriented programming plays an important role in allowing objects having different internal structures to share the same external interfaces?

Ans   ✔ 1. Polymorphism

      ✗ 2. Message passing

      ✗ 3. Objects

      ✗ 4. Classes

Q.15 If the value of multiplicand is 10111 and multiplier is 10011, what will be the result produced by Booth's multiplication algorithm in decimal?

Ans   ✗ 1. 170

      ✗ 2. 711

      ✔ 3. 117

      ✗ 4. 171

Q.16 Which of the following is NOT an instruction pipeline hazard?

Ans   ✔ 1. Address hazard

      ✗ 2. Control hazard

      ✗ 3. Structural hazard

      ✗ 4. Data hazard

Q.17 Which of the following mechanisms is intended to ensure that users, processes or threads are allowed to use secure entities in the computer only if the protection policy permits such use?

Ans   ✗ 1. Authentication

      ✗ 2. Denial of service

      ✔ 3. Authorisation

      ✗ 4. Masquerading

Q.18 Which of the following is FALSE with respect to object-in-object Oriented Programming?

Ans   ✔ 1.
      Objects cannot interact without having to know details of each other's data or code

      ✗ 2.
      Each object is associated with the data of type class with which they are created

      ✗ 3.
      Objects interact by sending messages to one another

      ✗ 4. Objects take up space in memory

Q.19 Which of the following in a computer system bus provides a path for the transfer of data between the processor and common memory?

Ans   ✗ 1. Address lines

      ✗ 2. Timing signals

✗ 3. Control lines

✓ 4. Data lines

Q.20 Which of the following is the process of initialising an object from another object using a copy constructor in C++?

Question ID : 16794310439

Ans

✗ 1. Copy construction

✗ 2. Copy declaring

✗ 3. Copy invoking

✓ 4. Copy initialisation

Q.1 Which of the following methods follows the same principle as of K-Mapping?

Question ID : 16794310456

Ans

✗ 1. Analytic functions

✓ 2. Quine-McCluskey method

✗ 3. Asymptotic analysis

✗ 4. De-Morgan's method

Q.2 Which of the following C++ file mode parameters is meant for opening a file for reading only?

Question ID : 16794310445

Ans

✓ 1. ios::in

✗ 2. ios::out

✗ 3. ios::ate

✗ 4. ios::app

Q.3 The size of K-Map depends on the number of:

Question ID : 16794310455

Ans

✗ 1. Assumed variables

✗ 2. Don't care variables

✗ 3. Output variables

✓ 4. Input variables

Q.4 Which of the following is the hexadecimal representation of decimal number 16?

Question ID : 16794310454

Ans

✓ 1. 0010

✗ 2. 0017

✗ 3. 000F

✗ 4. 0011

Q.5 Which of the following is NOT a section of process layout when a process is loaded into the main memory?

Question ID : 16794310448

Ans

✗ 1. Heap

✗ 2. Stack

✗ 3. Text

✓ 4. Graph

Q.6 Which of the following counts the number of 1's after XORing the received data with the transmitted data?

Ans ✗ 1. Cyclic redundancy code

✗ 2. Odd parity

✓ 3. Hamming distance

✗ 4. Even parity

Q.7 Which of the following data structures holds the currently allocated instances of resources in Banker's algorithm of handling deadlocks?

Ans ✗ 1. Need

✗ 2. Available

✗ 3. Max

✓ 4. Allocation

Q.8 Which of the following queues keeps a set of all processes residing in main memory ready and waiting to execute?

Ans ✗ 1. Task queue

✗ 2. Job queue

✓ 3. Ready queue

✗ 4. Device queue

Q.9 Which flip-flop can be obtained by incorporating a pair of 2 input NAND gates to accommodate the clock input to a NAND latch?

Ans ✗ 1. T

✓ 2. S-R

✗ 3. D

✗ 4. J-K

Q.10 Which of the given values can be accepted by counting semaphores?

Ans ✗ 1. Non-negative integers except 0&1

✗ 2. Only 0&1

✓ 3. Non-negative integers

✗ 4. Negative integers

Q.11 In which of the following counters, all outputs from the counters are NOT available at the same time because of propagation delay?

Ans ✗ 1. Synchronous up-down

✓ 2. Asynchronous

✗ 3. Synchronous

✗ 4. Synchronous down

Q.12 Which of the following file stream classes of C++ provides support for only input operations?

Ans ✗ 1. fstreambase

✗ 2. fstream

✓ 3. ifstream

✗ 4. ofstream

Q.13 Which of the following is a combinational logic circuit that compares the magnitude of two n-bit numbers and provides the relative result as output?

Question ID : 16794310462

Ans

✗ 1. Parity generator

✔ 2. Comparator

✗ 3. Code converter

✗ 4. Multiplexer

Q.14 Which of the following devices is meant to target a device out of several devices connected with the same system bus of a processor?

Question ID : 16794310457

Ans

✗ 1. Multiplexer

✔ 2. Decoder

✗ 3. Encoder

✗ 4. Counter

Q.15 Which of the following C++ statements will declare the pointer to array, if 'nptr' is pointer variable and 'number' is array variable?

Question ID : 16794310447

Ans

✗ 1. *nptr=number;

✔ 2. nptr=number

✗ 3. number=nptr

✗ 4. nptr=number[ ]

Q.16 Which of the following schedulers is the fastest?

Question ID : 16794310450

Ans

✗ 1. Job scheduler

✔ 2. Short-term scheduler

✗ 3. Long-term scheduler

✗ 4. Medium-term scheduler

Q.17 In which of the following types of inheritance, the properties of a class are inherited by more than one class?

Question ID : 16794310443

Ans

✗ 1. Multiple

✗ 2. Multilevel

✔ 3. Hierarchical

✗ 4. Multipath

Q.18 Which of the following is true in the case of a multiplexer?

Question ID : 16794310458

Ans

✗ 1. 1-inputs, 2^n-outputs

✔ 2. 2^n-inputs, 1-outputs

✗ 3. n-inputs, 2^n-outputs

✗ 4. 2^n-inputs, n-outputs

Q.19 Which of the following is the modified code of Excess-3 code?

Question ID : 16794310461

Ans

✗ 1. EBCDIC

✗ 2. Gray

✔ 4. BCD

Q.20 What will be the output of the following C++ program?

Question ID : 16794310446

```
#include<iostream.h>
#include<conio.h>
void main( )
{
int num[ ]={56,75,22,18,90};
int *ptr,i;
ptr=num;
ptr++;
ptr- =1;
cout<<"\nvalue at ptr:"<<*ptr;
}
```

Ans ✔ 1. 56

✗ 2. 74

✗ 3. 75

✗ 4. 55

Section : Subject Related

Q.1 Which of the following is referred to as using a computer to commit real world crimes with respect to cyberlaw?

Question ID : 16794310482

Ans ✗ 1. Computer as a person

✗ 2. Computer as a system

✔ 3. Computer as a weapon

✗ 4. Computer as a target

Q.2 Which of the following is FALSE with respect to constructors in C++?

Question ID : 16794310466

Ans ✗ 1.

Constructors are used to initialise variables and to allocate memory

✔ 2.

A constructor should not have the same name as that of a class

✗ 3. Constructors may be overloaded

✗ 4.

When an object is created and initialised, at the same time, a copy constructor gets called

---

Q.3 Which of the following is defined as the memory address obtained from the computation dictated by a given addressing mode?

Question ID : 16794310477

Ans ✗ 1. Interleaved address

✔ 2. Effective address

✗ 3. Dedicated address

✗ 4. Random address

Q.4 Which of the following protocols is the main protocol used to access data on the world wide web?

Question ID : 16794310479

Ans ✔ 1. HTTP

✗ 2. IP

✗ 3. DHCP

✗ 4. TCP

Q.5 Which of the following would be a preferred mode of transfer for transferring data between a magnetic disk and the memory?

Question ID : 16794310476

Ans
✗ 1. Programmed I/O

✗ 2. Hardware interrupt driven I/O

✔ 3. DMA

✗ 4. Software interrupt driven I/O

Q.6 Which of the following logic gates represents the given truth table?

Question ID : 16794310469

A	B	x
0	0	1
0	1	0
1	0	0
1	1	1

Ans
✔ 1. Exclusive NOR

✗ 2. Exclusive OR

✗ 3. NOR

✗ 4. NAND

Q.7 'PUSH A' indicates which of the following instruction format?

Question ID : 16794310475

Ans
✔ 1. Zero-address instruction

✗ 2. Two-address instruction

✗ 3. Three-address instruction

✗ 4. One-address instruction

Q.8 Which of the following is true with respect to object-oriented programming?

Question ID : 16794310464

Ans
✗ 1. Data moves freely around the program

✗ 2.
It treats procedures as a critical element in program development

✗ 3. It does not model the real world problems

✔ 4.
It employees bottom-up programming approach

Q.9 Which of the following expressions represents the given k-map?

Question ID : 16794310471

ab\cd	00	01	11	10
00	1	1		1
01				1
11				
10	1	1		1

Ans
✔ 1. B'D'+B'C'+A'CD'

✗ 2. AB+CD'+B'C

✗ 3. B+AC'

✗ 4. C'D'+A'B'+BC

Q.10 Which of the following C++ file modes is used to open an existing file for updating without losing its original contents?

Ans ✗ 1. Write

✗ 2. Extend

✗ 3. Read

✓ 4. Append

Q.11 Which of the following expressions represents the Exclusive OR gate?

Ans ✗ 1. (x+y) '*(x'+y')

✓ 2. (x.y')+(x'.y)

✗ 3. x+y'

✗ 4. x*y'

Q.12 Ethical hackers can also be referred to as:

Ans ✓ 1. White hat hackers

✗ 2. Red hat hackers

✗ 3. Grey hat hackers

✗ 4. Black hat hackers

Q.13 Which of the following is signed 2's complement representation of -14 with 8 bits?

Ans ✗ 1. 10001110

✓ 2. 11110010

✗ 3. 00001110

✗ 4. 11110001

Q.14 Which of the following can be the declaration of a member function if it does NOT alter any data in the class?

Ans ✓ 1. Const member function

✗ 2. Static member function

✗ 3. Friend function

✗ 4. Dynamic member function

Q.15 How many Boolean expressions can be formed with four Boolean variables?

Ans ✓ 1. 65536

✗ 2. 256

✗ 3. 16

✗ 4. 4

Q.16 Which of the following microprogrammed control unit organisations does NOT need any decoder circuitry to generate the control signals?

Ans ✗ 1. Diagonal

✗ 2. Vertical

✗ 3. Interleaved

✔ 4. Horizontal

Q.17 Which of the following methods of request-messaging in HTTP protocol sends a document from the server to the client?

Ans ✘ 1. CONNECT

✘ 2. POST

✔ 3. PUT

✘ 4. TRACE

Q.18 Which of the following is used to create static web pages?

Ans ✘ 1. Ajax

✘ 2. ASP

✘ 3. JSP

✔ 4. HTML

Q.19 Which of the following is known as a derived class with only one base class?

Ans ✔ 1. Single inheritance

✘ 2. Multilevel inheritance

✘ 3. Hierarchical inheritance

✘ 4. Multiple inheritance

Q.20 Which of the following is a combinational circuit that performs an arithmetic sum of three input bits?

Ans ✘ 1. k-map

✘ 2. Half-adder

✘ 3. Flip-flop

✔ 4. Full-adder

Section : Subject Related

Q.1 Which of the following types of commercial DBMS is developed by IBM?

Ans ✘ 1. MySQL

✘ 2. Sybase

✘ 3. Microsoft

✔ 4. DB2

Q.2 Consider the relations Order(Id,OrderDate,OrderNumber, CustomerId,TotalAmount) and Customer(Id,FirstName,LastName,City,Country,Phone). What will be the output of the following SQL statement:
Select FirstName, LastName,OrderCount= (Select count(O.Id) from Order O where O.CustomerId = C.Id) from Customer C

Ans ✘ 1. List all the orders

✘ 2. List all customers

✔ 3.
List all customers with their total number of orders

✘ 4. List all customers with all their orders

Q.3 Third normal form (3NF) is dependent on which of the following concepts?

Ans   ✔ 1. Transitive dependency

      ✘ 2. Non-trivial functional dependency

      ✘ 3. Full functional dependency

      ✘ 4. Multi valued attributes

Q.4 Which of the following with respect to SQL TRUNCATE statement is true?

Ans   ✘ 1.
      After deleting rows, TRUNCATE does not free the space containing table

      ✘ 2. We may roll back truncated data any time

      ✘ 3.
      We can use 'where' clause with TRUNCATE statement

      ✔ 4.
      We may not be able to roll back in case of TRUNCATE in some databases

Q.5 If a relation x has more than one key, then each of the keys can be called as:

Ans   ✘ 1. Foreign key

      ✔ 2. Candidate key

      ✘ 3. Super key

      ✘ 4. Primary key

Q.6 Which of the following SQL functions is used to evaluate a list of expressions and returns the corresponding result if a value is matched?

Ans   ✘ 1. NVL

      ✘ 2. INSTR

      ✔ 3. DECODE

      ✘ 4. TRIM

Q.7 In client-server computing, which of the following is NOT handled by a client?

Ans   ✘ 1. Presentation logic

      ✔ 2. Access to shared resources

      ✘ 3. Processing logic

      ✘ 4. Storage logic

Q.8 CDMA technology operates in which of the following frequency bands?

Ans   ✔ 1. 1.9 GHz

      ✘ 2. 1800 kHz

      ✘ 3. 900 kHz

      ✘ 4. 19000 MHz

Q.9 Which of the following refers to the number of participating entity types of a relationship type in DBMS?

Ans   ✘ 1. Cardinality

      ✘ 2. Status

      ✔ 3. Degree

✗ 4. Instance

Q.10 'The structure of data files is stored in the DBMS catalogue separately from the access programmes.' This property is referred to as:

Question ID : 16794310486

Ans
✗ 1. Program operation dependence

✗ 2. Program data dependence

✗ 3. Program operation independence

✔ 4. Program data independence

Q.11 Which of the following SQL joint statements returns all the records from the left table and the matched records from the right table?

Question ID : 16794310501

Ans
✔ 1. Left join

✗ 2. Full join

✗ 3. Inner join

✗ 4. Right join

Q.12 Which of the following clause in SQL ROLLBACK statement rolls back only the specified transaction?

Question ID : 16794310494

Ans
✔ 1. FORCE

✗ 2. WORK

✗ 3. COMMIT

✗ 4. SAVEPOINT

Q.13 Which of the following is the full form of GSM with respect to wireless mobile communications?

Question ID : 16794310483

Ans
✗ 1. Global System for Modern communication

✗ 2. Guided System for Modern communication

✗ 3. Guided System for Mobile communication

✔ 4. Global System for Mobile communication

Q.14 Which of the following processes is NOT facilitated by DBMS with respect to databases?

Question ID : 16794310485

Ans
✔ 1. Scheduling

✗ 2. Constructing

✗ 3. Sharing

✗ 4. Manipulating

Q.15 Which of the following components exists between client and database server in oracle three-tier architecture?

Question ID : 16794310493

Ans
✗ 1. Internet file schema

✔ 2. Application server

✗ 3. Oracle web cache

✗ 4. Master server

Q.16 Which of the following is one of the front-end technologies that are most frequently used with MySQL?

Question ID : 16794310492

Ans
✗ 1. JavaScript

✔ 2. HTML 5

✗ 3. Adobe AIR

✗ 4. Action script

Q.17 Which of the following with respect to views in SQL is FALSE?

Question ID : 16794310498

Ans

✔ 1. A view exists in the physical form.

✗ 2. A view is a single table.

✗ 3.
A view can be derived from the base table or other views.

✗ 4. A view is considered as a virtual table.

Q.18 Which of the following describes a group of links with common structure and common semantics in object oriented modeling?

Question ID : 16794310499

Ans

✔ 1. Association

✗ 2. Generalisation

✗ 3. Multiplicity

✗ 4. Inheritance

Q.19 Which of the following attributes can be called a multivalued attribute in DBMS?

Question ID : 16794310487

Ans

✗ 1. Birth date

✗ 2. Age

✔ 3. College degree

✗ 4. Gender

Q.20 Consider the tables PROJECT(Pname,Pnumber,Plocation) and WORKS_ON(ESSN,Pno,Hours). The query to retrieve the project number, project name and number of employees who work on that project is:

Question ID : 16794310502

Ans

✔ 1.
Select Pnumber,Pname,COUNT(*) from PROJECT, WORK_ON where Pnumber=Pno GROUP BY Pnumber, Pname;

✗ 2.
Select Pnumber,Pname, from PROJECT, WORK_ON where Pnumber=Pno GROUP BY Pnumber, Pname;

✗ 3.
Select Pnumber,Pname,COUNT(*) from PROJECT, WORK_ON GROUP BY Pnumber, Pname;

✗ 4.
Select Pnumber,Pname,COUNT(*) from PROJECT, WORK_ON where Pnumber=Pno;

Section : Subject Related

Q.1 Which of the following HTML code snippets is used to specify the path of a GIF image is stored at?

Question ID : 16794310509

Ans

✗ 1.

✔ 2. <IMG src="example.gif'/>

✗ 3. <IMG="example.gif'/>

✗ 4.

Q.2 The HTML code "<ABBR title="Internet Explorer">IE</ABBR> abbreviation of Internet Explorer" is used to:

Question ID : 16794310510

Ans

✔ 1. Display abbreviated texts

✗ 2. Display smaller size text

✗ 3. Display the superscripted data

✗ 4. Display the subscripted data

Q.3 Which of the following is FALSE with respect to tree data structure?

Ans

✗ 1.
Ancestors of a node are all the nodes along the path from the root to that node

✗ 2.
Height of a tree is the maximum level of any node in the tree

✗ 3. A forest is a set of disjoint trees

✔ 4.
Degree of a tree is the minimum degree of the nodes in a tree

Question ID : 16794310515

Q.4 From which of the following language is HTML derived?

Ans

✗ 1. XML

✔ 2. SGML

✗ 3. Java Script

✗ 4. XHTML

Question ID : 16794310504

Q.5 Which of the following conditions represents an empty condition in the circular queue?

Ans

✗ 1. Rear = n-1

✗ 2. (Rear + 1)mod n = front

✔ 3. Front = rear

✗ 4. (front + 1)mod n = rear

Question ID : 16794310513

Q.6 Which of the following elements is used to define rows of a table?

Ans

✗ 1. TS

✗ 2. TD

✔ 3. TR

✗ 4. TH

Question ID : 16794310508

Q.7 Which of the following sorting techniques used external sorting?

Ans

✗ 1. Bubble sort

✗ 2. Selection sort

✔ 3. Merge sort

✗ 4. Insertion sort

Question ID : 16794310519

Q.8 Which of the following refers to a set of characters used to identify or name a resource on the internet?

Ans

✗ 1. HTTP

✗ 2. RFC

✗ 3. UML

✔ 4. URI

Question ID : 16794310507

Q.9 In a sorting algorithm, if two objects with equal keys appear in the same order in sorted output as they appear in input array to be sorted, then it is said be:

Ans

Question ID : 16794310520

✗ 1. Stubborn

✗ 2. Standard

✗ 3. Strong

✓ 4. Stable

Q.10 In which of the following forms the EM element of emphasising text in HTML displays the emphasised text?

Question ID : 16794310511

Ans

✗ 1. Subscripted

✗ 2. Small

✗ 3. Bold

✓ 4. Italic

Q.11 The maximum height of a red-black tree with n internal nodes is:

Question ID : 16794310517

Ans

✗ 1. $\log(n+1)$

✗ 2. $2\log n$

✓ 3. $2\log(n+1)$

✗ 4. $2+\log n$

Q.12 When was HTML 5 released?

Question ID : 16794310503

Ans

✗ 1. 1996

✓ 2. 2014

✗ 3. 2006

✗ 4. 1992

Q.13 Which of the following can be defined as the number of sub-trees of a node?

Question ID : 16794310514

Ans

✓ 1. Degree

✗ 2. Forest

✗ 3. Level

✗ 4. Terminal nodes

Q.14 Which of the following metadata elements of HTML is used to specify a default URL and target for all the links in an HTML document?

Question ID : 16794310506

Ans

✗ 1. LINK

✓ 2. BASE

✗ 3. TITLE

✗ 4. COMMAND

Q.15 Which of the following is true with respect to the Fibonacci searching algorithm?

Question ID : 16794310521

Ans

✓ 1.

Fibonacci searching divides given array in equal parts

✗ 2.

Fibonacci searching uses divide-and-conquer algorithm

✗ 3. Fibonacci searching works for sorted arrays

✗ 4.

The time complexity of Fibonacci searching is O(logn)

Q.16 The worst case time complexity of a heap sort is:

Ans
- ✗ 1. O(logn)
- ✔ 2. O(nlogn)
- ✗ 3. O(n)
- ✗ 4. $O(n^2)$

Question ID : 16794310518

Q.17 Which of the following is NOT a type of INPUT element of form in HTML?

Ans
- ✗ 1. Checkbox
- ✔ 2. Source
- ✗ 3. Submit
- ✗ 4. Radio

Question ID : 16794310512

Q.18 In Document Object Model (DOM), all the properties, methods and events that are available to a web developer for manipulating and creating web pages are organised into:

Ans
- ✗ 1. Modules
- ✗ 2. Classes
- ✗ 3. Tables
- ✔ 4. Objects

Question ID : 16794310522

Q.19 Which of the following attributes of HTML element declares a namespace for tags used in HTML document?

Ans
- ✗ 1. title
- ✗ 2. xl:lang
- ✗ 3. style
- ✔ 4. xmlns

Question ID : 16794310505

Q.20 A binary search tree where the subtrees of every node differ in height by at most 1 is called:

Ans
- ✗ 1. Binary search tree
- ✗ 2. B+ tree
- ✔ 3. AVL tree
- ✗ 4. Binary tree

Question ID : 16794310516

Section : Subject Related

Q.1 Which of the following notations can be used to encode string <element> in XML document?

Ans
- ✗ 1. <gt;element>lt
- ✗ 2. >element&lt
- ✗ 3. <lt;element>gt
- ✔ 4. <element&gt

Question ID : 16794310537

Q.2 Which ASP development model is successor to classic ASP?

Question ID : 16794310540

Ans ✗ 1. ASP.NET MVC
      ✔ 2. ASP.NET
      ✗ 3. ASP.NET core
      ✗ 4. ASP.Web forms

Q.3 Which of the following is NOT a development model supported by ASP?

Ans ✗ 1. ASP.NET MVC
      ✗ 2. Classic ASP
      ✔ 3. ASP.NET APT
      ✗ 4. ASP.NET core

Q.4 Which of the following rules is FALSE with respect to XML structure?

Ans ✗ 1. Attribute values must be quoted
      ✗ 2. All XML elements must have a closing tag
      ✗ 3. All XML elements must have proper nesting
      ✔ 4. XML tags are case insensitive

Q.5 Which of the following is NOT a way to apply CSS to the HTML document?

Ans ✗ 1. The internal style
      ✗ 2. External style
      ✔ 3. The out-line style
      ✗ 4. In-line style

Q.6 Which of the following properties relating to a font is used display a font as normal or in small-caps in Cascading Style Sheets?

Ans ✔ 1. Font-variant
      ✗ 2. Font-style
      ✗ 3. Font-stretch
      ✗ 4. Font-weight

Q.7 The XML statement <!ELEMENT note(message)> declares _____.

Ans ✗ 1.
      The "note" element can contain only one occurrence of parsed character data
      ✗ 2.
      The "note" element can contain zero or more occurrences of parsed character data
      ✗ 3.
      The child element "message" must occur one or more times inside the "note" element
      ✔ 4.
      The child element "message" must occur only once inside the "note" element

Q.8 The trailing "/>" in the syntax indicates to a program processing XML statement that the element is:

Ans ✗ 1. Unrestricted
      ✗ 2. Matching

✓ 3. Empty
✗ 4. Unwanted

Q.9 Which of the following is a text decoration property in Cascading Style Sheets?

Ans
✓ 1. overline
✗ 2. lowercase
✗ 3. centre
✗ 4. ink

Q.10 Which of the following is NOT a value accepted by background colour property of Cascading Style Sheet?

Ans
✓ 1. Binary equivalent of colour
✗ 2. Hexadecimal equivalent of colour
✗ 3. RGB colour
✗ 4. Colour name

Q.11 Which of the following is NOT an attribute of HTML LINK element used to link CSS with web pages?

Ans
✗ 1. href
✗ 2. type
✗ 3. rel
✓ 4. ref

Q.12 Consider the following XML statement:
<Markup>xml statement</markup>
This statement is invalid due to:

Ans
✓ 1. Capitalisation mismatch
✗ 2. Improper element nesting
✗ 3. Improper quoting of attributes
✗ 4. Unclosed tag

Q.13 Which of the following is NOT a part of the document object model (DOM) with respect to the type of object?

Ans
✗ 1. XML
✗ 2. Core
✓ 3. Class
✗ 4. HTML

Q.14 Which of the following area of a box displays the content of a document in cascading style sheets?

Ans
✗ 1. Border
✗ 2. Margin
✗ 3. Padding
✓ 4. Content

Q.15 Which of the following is true with respect to ASP?

Ans

✗ 1. ASP enables client side scripting for IIS

✔ 2. ASP technology is language-independent

✗ 3.
Most of the functionality that can be built into ASP pages comes from objects on the client

✗ 4.
Files created with ASP have the extension .aspn

Q.16 Which of the following Cascading Style Sheet text properties defines the minimum and maximum space between words?

Question ID : 16794310530

Ans
✔ 1. word-spacing

✗ 2. word-wrap

✗ 3. word-break

✗ 4. white-space

Q.17 Which of the following margin properties of Cascading Style Sheet allows specifying all margin properties in one declaration?

Question ID : 16794310532

Ans
✗ 1. Margin-bottom

✔ 2. Shorthand margin

✗ 3. Margin-left

✗ 4. Margin-right

Q.18 Which of the following is a valid XML declaration?

Question ID : 16794310533

Ans
✗ 1. <xml version="1.0" standalone="yes">

✗ 2. <?xml version="1.0" standalone="yes">

✗ 3. <*xml version="1.0" standalone="yes"*>

✔ 4. <?xml version="1.0" standalone="yes"?>

Q.19 Which of the following Cascading Style Sheet selectors matches all the elements specified in a list with the given value to determine the elements to which the CSS rules are to be applied?

Question ID : 16794310524

Ans
✗ 1. ID

✗ 2. Class

✗ 3. Universal

✔ 4. Type

Q.20 Which of the following is the default scripting language of ASP?

Question ID : 16794310542

Ans
✔ 1. VBScript

✗ 2. C#

✗ 3. JavaScript

✗ 4. XML

Section : Subject Related

Q.1 Which of the following is a valid assignment in ASP?

Question ID : 16794310546

Ans ✗ 1. "strName"="John Smith"

✔ 2. strName="John Smith"

✗ 3. 70=137

✗ 4. #1/5/1985#=#9/15/1985#

Q.2 Which of the following data-types is supported by VBScript, which is often used to create ASP that can store different types of data?

Question ID : 16794310545

Ans ✗ 1. Integer

✔ 2. Variant

✗ 3. Boolean

✗ 4. Object

Q.3 Which of the following is the expansion of ADO with respect to ASP?

Question ID : 16794310553

Ans ✗ 1. Alternative Dynamic Objects

✗ 2. ActiveX Dynamic Objects

✔ 3. ActiveX Data Objects

✗ 4. Alternative Data Objects

Q.4 Which of the following ASP objects is used to send information to the user?

Question ID : 16794310552

Ans ✗ 1. Session

✗ 2. Application

✗ 3. Request

✔ 4. Response

Q.5 The 'instanceof' JS operator returns _____.

Question ID : 16794310558

Ans ✔ 1.
True if an object is an instance of an object type

✗ 2. Size of a variable

✗ 3.
True if an object is a method of an object type

✗ 4. Type of a variable

Q.6 Which of the following is FALSE with respect to rules of naming variables in Visual Basic?

Question ID : 16794310561

Ans ✔ 1.
More than 40 characters can be used in a variable name

✗ 2.
Reserved words cannot be used as a name of a variable

✗ 3.
The first character of a variable name must be a letter

✗ 4.
Variable names may include letters, numbers and underscore

Q.7 Which of the following is NOT a built-in constant in ASP?

Question ID : 16794310544

Ans ✗ 1. Empty

✗ 2. NULL

✔ 3. FULL

✗ 4. Nothing

Q.8 Which of the following functions of ASP is used to get the number of seconds since 12:00 AM?

Question ID : 16794310548

Ans ✗ 1. TimeValue

✗ 2. TimeSerial

✗ 3. Time

✔ 4. Timer

Q.9 Which of the following is FALSE with respect to VBScript sub procedures in ASP?

Question ID : 16794310549

Ans ✗ 1. Sub procedure can take arguments

✗ 2. Sub procedure is a series of statements

✔ 3.
Sub procedure will perform actions and return a value

✗ 4.
Sub procedure is enclosed by Sub and End Sub statements

Q.10 JavaScript is used to:

Question ID : 16794310556

Ans ✔ 1. Program the behaviour of web pages

✗ 2. Specify the layout of web pages

✗ 3. Perform processing on the server side

✗ 4. Define the content of web pages

Q.11 Which of the following ASP server variables returns a string that describes the browser that sent the request?

Question ID : 16794310555

Ans ✔ 1. HTTP_USER_AGENT

✗ 2. REMOTE_ADDR

✗ 3. SERVER_NAME

✗ 4. REMOTE_HOST

Q.12 Which of the following ASP VB functions converts an expression to a variant of subtype single?

Question ID : 16794310547

Ans ✗ 1. CInt

✗ 2. CLng

✗ 3. CDbl

✔ 4. CSng

Q.13 Which of the following is a method of ASP application object?

Question ID : 16794310550

Ans ✗ 1. Timeout

✗ 2. Form

✗ 3. Write

✔ 4. Lock

Q.14 Which of the following JS browser objects represents browser's window?

Ans ✔ 1. Window object

✗ 2. Location object

✗ 3. Form

✗ 4. Document

Q.15 Which if the following suffixes is used to indicate currency data type in Visual Basic?

Ans ✔ 1. @

✗ 2. &

✗ 3. #

✗ 4. %

Q.16 Which of the following keywords is used to explicitly declare variables in ASP?

Ans ✔ 1. DIM

✗ 2. DIS

✗ 3. Const

✗ 4. Explicit

Q.17 Which of the following ASP component creates an object that displays a different image each time a user enters or refreshes a page?

Ans ✗ 1. Counter

✔ 2. AdRotator

✗ 3. Page Counter

✗ 4. Content Rotator

Q.18 Which of the following are actions that can be performed on objects in JavaScript?

Ans ✗ 1. Objects

✗ 2. Properties

✗ 3. Function definitions

✔ 4. Methods

Q.19 What will be the result of the following JavaScript: var x="Volvo"+16+4

Ans ✗ 1. volvo20

✗ 2. 20volvo

✗ 3. 164volvo

✔ 4. Volvo164

Q.20 The ADO connection object is used to:

Ans ✗ 1. Display data from a recordset

✗ 2.

Display only selected set of records and fields to view

✗ 3. Hold a set of records from a database table

✔ 4. Create an open connection to a data source

Section : Subject Related

Q.1 Which of the following is an extension of a Visual Basic project file?

Ans

✔ 1. .vbp

✗ 2. .ocx

✗ 3. .frx

✗ 4. .bas

Q.2 Which of the following is a time-based multimedia authoring tool?

Ans

✔ 1. Flash

✗ 2. Revolution

✗ 3. Hypercard

✗ 4. Micromedia Authorware

Q.3 The type of interaction between a user and a computer involving commands and responses with one person at a time is called: _____

Ans

✗ 1. Graphical user interface

✗ 2. Form based interface

✔ 3. Command line interface

✗ 4. Menu driven interface

Q.4 Which of the following sound effects indicates ambience settings and need NOT be synchronised with the picture with respect to multimedia?

Ans

✔ 1. Background

✗ 2. Foreground

✗ 3. Foley

✗ 4. Design

Q.5 Which of the following is FALSE with respect to use of recursion for problems with inductive characterisation?

Ans

✗ 1.
Recursive method has more to do following a recursive call

✗ 2.
Every recursive method must have a base case

✔ 3.
Use formal reasoning to determine the time of a recursive call

✗ 4.
Every recursive method makes progress towards its base case

Q.6 Which of the following standards supports coding of natural and synthetic media objects for multimedia applications?

Ans

✗ 1. MPEG-2

✔ 2. MPEG-4

✘ 3. MPEG-7

✘ 4. MPEG-1

Q.7 Which of the following is NOT a type of multimedia authoring tool?

Question ID : 16794310570

Ans ✘ 1. Time based

✔ 2. Sound based

✘ 3. Icon based

✘ 4. Card based

Q.8 Which of the following usages is true with respect to frames in HTML?

Question ID : 16794310580

Ans ✘ 1. <FREAMESET COLS="80,+">

✘ 2. <FREAMESET COLS="80,$">

✔ 3. <FREAMESET COLS="80,*">

✘ 4. <FREAMESET COLS="80,?">

Q.9 Which of the following is the technique of gradually working from a high-level to detailed algorithm?

Question ID : 16794310576

Ans ✘ 1. Reviewing the algorithm

✔ 2. Stepwise refinement

✘ 3. Analysis of the algorithm

✘ 4. Describing the algorithm

Q.10 Which property of the ToolStrip object is used to set the position of the toolbar in Visual Basic?

Question ID : 16794310566

Ans ✘ 1. DockPadding

✘ 2. DesignMode

✘ 3. DefaultSize

✔ 4. Dock

Q.11 Which of the following HTML tags inside <select> element defines the available options in a list?

Question ID : 16794310582

Ans ✔ 1. <option>

✘ 2. <elements>

✘ 3. <list>

✘ 4. <choice>

Q.12 Which of the following is NOT the scope of an explicit type of variable in Visual Basic?

Question ID : 16794310563

Ans ✘ 1. Procedure level

✔ 2. Procedure level, dynamic

✘ 3. Global level

✘ 4. Form and module level

Q.13 Which of the following options of the dialog box with respect to menu editor in Visual Basic allows assigning a numeric value that determines the control's position within a control array?

Question ID : 16794310564

Ans ✘ 1. windowsList

✗ 2. Name

✗ 3. shortcut

✔ 4. Index

Q.14 Which of the following is NOT a quality of a good multimedia monitor?

Ans

✗ 1. Size

✔ 2. Sound pitch

✗ 3. Refresh rate

✗ 4. Dot pitch

Question ID : 16794310568

Q.15 Which of the following algorithms is used by GIF images with respect to multimedia?

Ans

✗ 1. Area image compression

✔ 2. Lempel-Ziv-Welch

✗ 3. Run length encoding compression

✗ 4. Chain codes

Question ID : 16794310569

Q.16 In which of the following procedures the code to be executed when user chooses the menu item is placed in Visual Basic?

Ans

✔ 1. Click event

✗ 2. Drag event

✗ 3. Move event

✗ 4. Drop event

Question ID : 16794310565

Q.17 What is the smallest size allowable for dimensions in movie properties in multimedia flash?

Ans

✗ 1. 550 × 400 pixels

✗ 2. 2880 × 2880pixels

✔ 3. 18 × 18 pixels

✗ 4. 12 × 12pixels

Question ID : 16794310575

Q.18 Which of the following icons turns off and on the visibility of the layer, allowing us to see what is behind or under the layer in Photoshop image editing software?

Ans

✗ 1. Delete

✗ 2. Layer palette

✔ 3. Eye

✗ 4. Opacity

Question ID : 16794310574

Q.19 Which of the following should be placed inside PHP script to store information in the database through HTML form?

Ans

✗ 1. Webpage

✗ 2. HTML document

✗ 3. Browser

✔ 4. SQL commands

Question ID : 16794310581

Q.20 To control the width of a cell, spanning two or more columns, which attribute is added to <th>, <td> tags?

Ans

Question ID : 16794310579

✗ 1. Align

✗ 2. Width

✔ 3. Colspan

✗ 4. Rowspan

Q.1 Identify from the given list the correct option.

Which of the following is a behavioural characteristic of mentally retarded individual?

Ans ✗ 1. Special liking for something

✗ 2. Increased attention span

✗ 3. Poor memory

✔ 4. Immaturity in different social situations

Q.2 Choose the best option to complete the sentence.

In certain cases of special attention or special needs, art form in teaching is also used as a technique for:

Ans ✗ 1. Practice

✗ 2. Consulting

✗ 3. Teaching

✔ 4. Therapy

Q.3 Choose the right option from the list below.

Syntax, an important aspect in writing, means:

Ans ✗ 1. Grouping of similar ideas

✗ 2. Grouping of similar words

✔ 3. Word order and sentence structure

✗ 4. Spellings of words

Q.4 Choose from the options given below.

Performing arts helps in:

Ans ✗ 1. Memorising

✗ 2. All students participating

✔ 3. Meaningful learning

✗ 4. Decreasing student dropouts

Q.5 वाक्य को पूरा करने के लिए उपयुक्त विकल्प चुनें।

गणित के शिक्षक को गणित सीखने को अधिक अर्थपूर्ण बनाने के लिए गणित के _____ मूल्य को विशिष्ट रूप से दर्शाने (हाइलाइट करने) की आवश्यकता है।

Ans

✗ 1. बौद्धिक

✗ 2. सामाजिक

✗ 3. सौन्दर्यात्मक

✔ 4. उपयोगी

Q.6 Choose the correct answer from the options given below.

The relative measure of dispersion of the below is:

Ans
✗ 1. Standard deviation

✔ 2. Coefficient of variation

✗ 3. Variance

✗ 4. Range

Q.7 Choose the correct answer from the options to complete the sentence.

Development of an individual is a collective outcome of:

Ans
✗ 1. School and family efforts

✗ 2. Education and schooling

✔ 3. Maturity and learning

✗ 4. Growth and maturity

Q.8 Choose the best option to complete the sentence.

Reflection on reading is said to be complete only when it includes:

Ans
✗ 1. Conducting a test

✗ 2. Questions and answers

✗ 3. Rewriting the text

✔ 4. Analysis and discussion

Q.9 वाक्य को पूरा करने के लिए सर्वश्रेष्ठ विकल्प चुनें।

भाषा शिक्षण में नवीनतम प्रवृत्ति यह है कि:

Ans
✗ 1. व्याकरण की उपेक्षा की जाती है।

✗ 2. विशेष अवधि में व्याकरण पढ़ाया जाता है।

✗ 3. व्याकरण शिक्षण पर विशेष बल दिया जाता है।

✔ 4. व्याकरण पाठ के साथ एकीकृत है और प्रासंगिक रूप से पढ़ाया जाता है।

Q.10

Choose the right option.

Corrective feedback is most useful when it is:

Ans
✗ 1. Frequent and biased
✗ 2. Judgmental and unambiguous
✗ 3. Reliable and subjective
✔ 4. Immediate and specific

Q.11 Choose the most appropriate option.

Question ID : 16794310589

Technology that has affected the sex ratio is:

Ans
✗ 1. Films and internet
✗ 2. Social media and chats
✗ 3. Mobile phones and TVs
✔ 4. Amniocentesis and ultrasonography

Q.12 Choose the right option.

Question ID : 16794310588

A scientific study of language is called:

Ans
✗ 1. Lingual study
✔ 2. Linguistics
✗ 3. Phonetics
✗ 4. Grammar

Q.13 Choose from the options below.

Individualised learning is a method in which the content, method and material are based on the:

Question ID : 16794310596

Ans
✗ 1. Learner needs
✔ 2. Learner ability
✗ 3. Teacher competency
✗ 4. Curriculum requirements

Q.14 Choose the best option from the given list.

Which of the following computer-based instructional material can be used to learn new concepts?

Question ID : 16794310585

Ans
✗ 1. Simulations
✗ 2. Online assessments
✔ 3. Tutorial
✗ 4. Review questions

Q.15 Choose the right option from the list given below.

"Right of children to free and compulsory education to the children of 6-14 years age group including children with special needs." This is a provision mentioned in:

Question ID : 16794310601

Ans
✔ 1. RTE Act
✗ 2. Education for all Initiative

✗ 3. Inclusive education policy

✗ 4. SSA

Q.16 Choose the right option.

Question ID : 16794310595

A "byte" in a computer terminology consists of:

Ans ✓ 1. 8 bits

✗ 2. 32 bits

✗ 3. 4 bits

✗ 4. 16 bits

Q.17 Choose the right answer.

Question ID : 16794310597

Subject-centred curriculum consisting of skills (three R's) is the emphasis of:

Ans ✗ 1. Realism

✗ 2. Progressivism

✓ 3. Essentialism

✗ 4. Existentialism

Q.18 Choose the most appropriate answer from the options given.

Question ID : 16794310583

The concept of "quality" is:

Ans ✗ 1. As per norms of the society

✗ 2. As per the gender

✗ 3. Universally constant

✓ 4. As perceived by an individual

Q.19 Choose the correct option to complete the sentence.

Question ID : 16794310586

"Dialogic teaching and learning" that harnesses cognition in students emphasises:

Ans ✗ 1. Clear explanation by the teacher

✓ 2.

Interaction between students and the teacher

✗ 3. Involving parents in the teaching process

✗ 4. Using lot of audio-visual aids

Q.20 Choose from the options below.

Question ID : 16794310584

In India, the exponential change in technology and lifestyle has lead to:

Ans ✗ 1. Westernisation

✗ 2. Modernisation

✗ 3. Time lag

✓ 4. Cultural lag