



PANDIT
DEENDAYAL
PETROLEUM
UNIVERSITY

SCHOOL OF LIBERAL STUDIES

• QUESTION PAPER

TIME : 90 MINUTES

NUMBER OF QUESTIONS : 120

SECTIONS : 4

Please open the Question Paper only when you are instructed to do so.

Rough work may be done in the margin.

Answer Sheet is provided separately.

Please use HB Pencil to blacken your choice of answer.

The Question Paper has to be returned with the Answer Sheet attached.

Please note that Wrong Answers carry Negative Marks.

**EACH SECTION CARRIES
30 QUESTIONS**

SECTION - 1

ENGLISH

SECTION - 2

QUANTITATIVE APTITUDE

SECTION - 3

LOGICAL REASONING

SECTION - 4

GENERAL KNOWLEDGE

SECTION - 1

SECTION - 1

ENGLISH

PICK THE ERROR IN THE NEXT SEVEN QUESTIONS

1. The con artist hoodwinked the old lady when he sold her fradulent insurance.
A. Capitalization B. Punctuation C. Spelling D. Grammar
2. The movie star was accused of a misdemeanor, when she stole 15 dollars worth of merchandise from the store.
A. Capitalization B. Punctuation C. Spelling D. Grammar
3. The congregation sang a comtemporary hymn.
A. Capitalization B. Punctuation C. Spelling D. Grammar
4. The wound were necrotic when examined.
A. Capitalization B. Punctuation C. Spelling D. Grammar
5. The defendint exhibited a peevish appearance.
A. Capitalization B. Punctuation C. Spelling D. Grammar
6. The band director was scheduled to play the piccolo on tuesday.
A. Capitalization B. Punctuation C. Spelling D. Grammar
7. The renter was remiss; about the rent.
A. Capitalization B. Punctuation C. Spelling D. Grammar

COMPLETE THE SENTENCE FLOW WITH THE APPROPRIATE WORD/WORDS

8. _____ of the rainbow were _____ against the bright blue sky.
A. Textures, Clear B. Hues, Vivid C. Alabaster, Bright D. Hues, Dark
9. A small selection of terms was found at the back of the textbook. It was a _____.
A. Glossary B. Preface C. Diction D. Preface
10. The horror movie frightened the children. It was _____.
A. Melancholy B. Dramatic C. Ghastly D. Tragedy

11. The kitten was soaked to the _____ from the _____.

- A. Skin, Abyss B. Skin, Craven C. Skin, Storm D. Hide, Abyss

SELECT THE SYNONYM FOR

12. BLISS

- A. happiness B. sad C. laugh D. scream

13. MEDITATE

- A. ruminate B. calming C. wonder D. combust

SELECT AN ANTONYM FOR

14. AUTHENTIC

- A. rare B. genuine C. sound D. caustic

15. SPONTANEOUS

- A. impulsive B. doubtful C. sure D. planned

16. COMBUSTIBLE

- A. calm B. fire proof C. able to catch fire D. angry

GIVE THE MEANING OF THE FOLLOWING WORDS

17. RAPT

- A. lively B. concealed C. engrossed D. prototype

18. PIOUS

- A. historic B. devout C. multiple D. fortunate

19. LETHARGY

- A. reminiscence B. category C. unanimity D. stupor

20. CARGO

- A. cabbage B. camel C. lance D. freight

READ THE ESSAY CAREFULLY

The essay is followed by six questions about changes that might improve all or part of the organization, development, sentence, structure, use of language, appropriateness to the audience, or use of standard written English.

In each case, choose the answer that most clearly and effectively expresses the student's intended meaning. Indicate your choice by blackening the corresponding space on the answer sheet.

PLEASE NOTE THAT THE NUMBER IN THE BRACKET CORRESPONDS TO THE SENTENCE NUMBER

[1] Teenagers under eighteen can now receive a major credit card as long as the credit card's use is supervised by a parent or guardian. [2] This is a good idea since it gives these teenagers the responsibility of managing their money. [3] Another is because teenagers can develop good habits of spending that will be useful later in life.

[4] A teenager can legally hold a job at age sixteen. [5] This means that many teenagers have a steady income, which they should be able to spend as they wish. [6] Being in control of their own finances not only teaches them the value of money but how to spend it wisely.

[7] An example of a teenager with a credit card is Bonita Bobbins. [8] Bonita is a junior in high school. [9] She is seventeen years old. [10] She works after school in a real estate office. [11] She earns about \$100 a week. [12] After three months of work she applied for a credit card. [13] Her bank gave her one but said that there will be a "trial period" in which her parent will be responsible. [14] Most of the time Bonita paid her bills punctually and on time. [15] However, during one month Bonita charged more than she could pay, so her parents loaned her the money. [16] The next month Bonita saved her income and paid it back. [17] This was a good lesson for Bonita, because next time she'll probably be more careful about spending money.

[18] This plan also lets the parents and the teenagers plan how the credit card will be used. [19] Teenagers might use the card freely to buy things for less than \$25. [20] For items costing more, talk to your parents before buying them. [21] Parents could help their teenager to plan a budget or set priorities for spending money. [22] Since parents are going to assume responsibility for the card's use or abuse, they will want to have some input on how it will be used?

21. Which is the best revision of the underlined segment of sentence 3 below?
Another is because teenagers can develop good habits of spending that will be useful later in life.
- A. reason is because teenagers develop
 - B. reason is that teenagers may develop
 - C. idea is due to the fact that teenagers may develop
 - D. may come about due to teenagers' developing
22. Given the context of paragraph 3, which revision of sentences 8, 9, 10 and 11 is the most effective?
- A. Bonita, a junior in high school, earning about \$100 a week by working after school in a real estate office, is seventeen years old.
 - B. As a junior in high school and being seventeen, she works after school in a real estate office, earns about \$100 a week.
 - C. A seventeen-year-old high school junior, she earns \$100 a week at an after-school job in a real estate office.
 - D. Bonita Robbins earns about \$100 a week, being employed after school in a real estate office; she is seventeen and is a high school junior.
23. Which of the following is the best revision of sentence 14?
- A. Bills were paid punctually.
 - B. Usually Bonita had paid her bills on time.
 - C. Most of the time the bills were paid by Bonita on time.
 - D. Usually Bonita paid her bills when they were due.
24. With regard to the whole essay, which of the following best describes the function of paragraph 3?
- A. To summarize the discussion presented in earlier paragraphs
 - B. To persuade readers to change their point of view
 - C. To provide an example
 - D. To ridicule an idea presented earlier in the essay
25. Which revision of the underlined segment of sentence 18 below provides the best transition between the third and fourth paragraphs?
This plan also lets the parents and the teenagers plan how the credit card will be used.
- A. Another advantage of this plan is that it
 - B. Another advantage of a "trial" credit card program like Bonita's is that it
 - C. A different advantage to Bonita's experience
 - D. All of a sudden, it

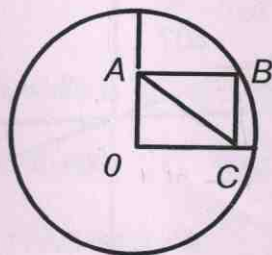
EACH OF THESE QUESTIONS HAS A SENTENCE WITH AN IDIOM WHICH IS UNDERLINED. CHOOSE THE APPROPRIATE MEANING OF THE IDIOM.

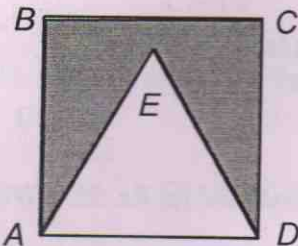
26. We could finish this work early, only if we cut corners.
- A. resort to bribery
B. are brutal
C. take the shortest way
D. are reckless
27. Rima took to her heels and fled from the principal's office.
- A. bent down
B. ran off
C. kicked off her shoes
D. cried
28. Rahul proved to be a wet blanket in the party.
- A. good companion
B. warm and friendly
C. kill-joy
D. helpful
29. Do not depend on him, he has an axe to grind.
- A. no property
B. personal end to serve
C. no sense
D. no work to do
30. He cannot get that contract, it is a wild goose chase.
- A. useless effort
B. baseless effort
C. good effort
D. desperate effort

SECTION - 2

QUANTITATIVE APTITUDE

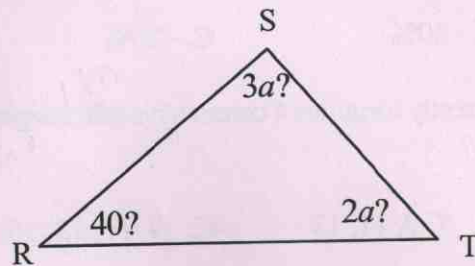
- What percent of 90 is 27?
 - 15%
 - 20%
 - 30%
 - 33%
- Which of the following correctly identifies 4 consecutive odd integers where the sum of the middle two integers is equal to 24?
 - 5, 7, 9, 11
 - 7, 9, 11, 13
 - 9, 11, 13, 15
 - 11, 13, 15, 17
- What is the next number in the sequence? 6, 12, 24, 48, ____
 - 72
 - 96
 - 108
 - 112
- In the figure at the right, if the radius of circle O is 10, what is the length of diagonal AC of rectangle $OABC$?



- $\sqrt{2}$
 - $\sqrt{10}$
 - $5\sqrt{2}$
 - 10
- In the figure below, $ABCD$ is a square and AED is an equilateral triangle. If $AB=2$, what is the area of the shaded region?
 

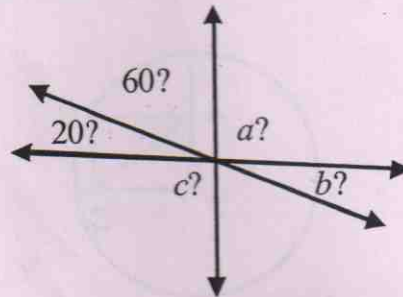
- $\sqrt{3}$
- 2
- 3
- $4\sqrt{3}$

6. In the figure below, what is the value of a ?



- A. 10 B. 20 C. 28 D. 36

7. In the figure below, what is the value of $a + b + c$?



- A. 210 B. 220 C. 240 D. 270
8. If $a - b = 1$, $b - c = 2$, and $c - a = d$, what is the value of d ?
- A. -3 B. -1 C. 1 D. 3
9. The average of 5, 10, 15, and x is 20. What is x ?
- A. 0 B. 20 C. 40 D. 45
10. An article is bought for Rs. 20 and sold for Rs. 25/-. What is the gain percentage?

- A. 28% B. 25% C. 22% D. 20%
1. A metal cube of edge 12 cm is melted and formed into three smaller cubes. If the edges of two smaller cubes are 6 cm and 8 cm, find the edge of the third smaller cube?

- A. 10 cm B. 14 cm C. 12 cm D. 16 cm
11. A metal cube of edge 12 cm is melted and formed into three smaller cubes. If the edges of two smaller cubes are 6 cm and 8 cm, find the edge of the third smaller cube?
- A. 10 cm B. 14 cm C. 12 cm D. 16 cm

12. A well has to be dug out that is to be 22.5 m deep and of diameter 7 m. Find the cost of plastering the inner curved surface at Rs. 3 per sq. metre
- A. Rs. 1465 B. Rs. 1485 C. Rs. 1475 D. Rs. 1495
13. $7.95 \div 1.5$
- A. 2.4 B. 5.3 C. 6.2 D. 7.3
14. $-32 + 7$ equals:
- A. -25 B. 25 C. -26 D. 26
15. 45% of 500 equals
- A. 210 B. 250 C. 220 D. 225
16. The sales price of a car is Rs.12,590, which is 20% of the original price. What is the original price?
- A. Rs.14,310.40 B. Rs.14,990.90 C. Rs.15,290.70 D. Rs.15,737.50
17. Solve the following equation for A : $2A/3 = 8 + 4A$
- A. -2.4 B. 2.4 C. 1.3 D. -1.3
18. If Ram is 6 years older than her sister, Gayatri, and Laxman is 5 years older than Ram, and the total of their ages is 41. Then how old is Gayatri?
- A. 8 B. 10 C. 14 D. 19
19. Alita wants to invest Rs.4,000 at 6% simple interest rate for 5 years. How much interest will he receive?
- A. Rs.240 B. Rs.480 C. Rs.720 D. Rs.1200
20. If Lily can type a page in p minutes, what piece of the page can she do in 5 minutes?
- A. $5/p$ B. $p - 5$ C. $p + 5$ D. $p/5$
21. If Larry can paint a house in 4 hours, and John can paint the same house in 6 hour, how long will it take for both of them to paint the house together?
- A. 2 hours and 24 minutes B. 3 hours and 12 minutes
C. 3 hours and 44 minutes D. 4 hours and 10 minutes

22. A student receives his grade report from a local community college, but the GPA is smudged. He took the following classes: a 2 hour credit art, a 3 hour credit history, a 4 hour credit science course, a 3 hour credit mathematics course, and a 1 hour science lab. He received a "B" in the art class, an "A" in the history class, a "C" in the science class, a "B" in the mathematics class, and an "A" in the science lab. What was his GPA if the letter grades are based on a 4 point scale? (A=4, B=3, C=2, D=1, F=0)
- A. 2.7 B. 2.8 C. 3.0 D. 3.1
23. If $8x + 5x + 2x + 4x = 114$, then $5x + 3 =$
- A. 12 B. 25 C. 33 D. 47
24. Radha has 16 apples in her pocket. She has 8 red ones, 4 green ones, and 4 blue ones. What is the minimum number of apples she must take out of her pocket to ensure that she has one of each color?
- A. 4 B. 8 C. 12 D. 13
25. If $r = 5z$ then $15z = 3y$, then $r =$
- A. y B. $2y$ C. $5y$ D. $10y$
26. What is 1230.932567 rounded to the nearest hundredths place?
- A. 1200 B. 1230.9326 C. 1230.93 D. 1230
27. What is the absolute value of -9?
- A. -9 B. 9 C. 0 D. -1
28. In the number 743.25 which digit represents the tenths space?
- A. 2 B. 3 C. 4 D. 5
29. 35% of what number is 70?
- A. 100 B. 110 C. 200 D. 175
30. What number is 5% of 2000?
- A. 50 B. 100 C. 150 D. 200

SECTION - 3

LOGICAL REASONING

ANSWER THESE QUESTIONS BASED ON THE FOLLOWING TABLE WHICH GIVES THE CIRCULATION IN THOUSANDS, OF FIVE ENGLISH DAILIES IN THE FOUR STATES DURING 2007-2008.

Newspapers	Kerala	Punjab	UP	HP
A	123	227	96	78
B	105	220	117.2	97
C	122	14.6	9.7	17.2
D	82.4	44	145	9.3
E	24.4	23	10	100

- Of the five dailies, which has the highest number of circulation?

A. A B. 8 C. D D. E
- What is the difference in the circulation among the top two newspapers?

A. 14200 B. 15200 C. 13200 D. 12200
- The newspaper A's circulation in Punjab is x times that of the newspaper B's circulation in HP. What is 'x'?

A. 235 B. 2 C. 2.75 D. 225
- The ratio of the circulation of newspaper D in Punjab and HP is:

A. 5.5:2 B. 5:2 C. 6:3.41 D. 5.5:1.16
- The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?

A. 25 milisecond B. 30 milisecond C. 28 milisecond D. 32 milisecond
- A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power a plant opposite to that of the river and 1500mts away from the power unit. The cost of the cable below water is Rs. 15/- per meter and cost of cable on the bank is Rs.12/- per meter. Find the total cost of laying the cable.

A. 20250 B. 20550 C. 20350 D. 20450

7. Complete the series. 4, -5, 11, -14, 22, —
- A. 14 B. -22 C. 24 D. -27
8. A can copy 50 papers in 10 hours while both A & B can copy 70 papers in 10 hours. Then for how many hours required for B to copy 26 papers?
- A. 13 B. 20 C. 25 D. 27
9. If VXUPLVH is written as SURMISE, what is SHDVD?
- A. PEASA B. WEASA C. PEWSA D. DERSA
10. Complete the series. 3, 8, —, 24, —, 48, 63
- A. 16,37 B. 18,37 C. 17,34 D. 15,35
11. In a class composed of x girls and y boys what part of the class is composed of girls?
- A. $y/(x + y)$ B. x/xy C. $x/(x + y)$ D. y/xy
12. In the word ORGANISATIONAL, if the first and second, third and fourth, fourth and fifth, fifth and sixth words are interchanged up to the last letter, what would be the tenth letter from right?
- A. I B. L C. O D. S
13. A finish the work in 10 days. B is 60% efficient than A. So how many days does B take to finish the work?
- A. 5 days B. 4 days C. 6 days D. 7 days
14. A finishes the work in 10 days & B in 8 days individually. If A works for only 6 days then how many days should B work to complete A's work?
- A. 3.5 B. 3.9 C. 3.0 D. 3.2
15. If TAFJHH is coded as RBEKGI then RBDJK can be coded as _____.
- A. PKKCJ B. PCCKJ C. QPCKJ D. PCKQJ
16. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work?
- A. 17 B. 18 C. 16 D. 19

PICK THE ODD ONE OUT

17. Ginger, Turmeric, Potato, Tomato, Carrot

- A. Tomato B. Carrot C. Turmeric D. None of these

18. BC, FG, PQ, KL, TV

- A. BC B. KL C. TV D. None of these

STUDY THE INFORMATION GIVEN BELOW TO ANSWER THESE QUESTIONS.

There are four friends A, B, C, D. One of them is a cricketer and studies Chemistry and Biology. A and B play football. Both football players study Maths. D is a boxer. One football player also studies Physics. The boxer studies Maths and Accounts. All the friends study two subjects each and play one game each.

19. Who is the cricketer?

- A. A B. B C. C D. D

20. Who studies Accounts and plays football?

- A. A alone B. B alone C. D D. A or B

21. Who studies Physics?

- A. A or B B. A alone C. B alone D. D

22. How many games are played and subjects studied by the four friends?

- A. 1 game and 4 subjects B. 2 games and 3 subjects
C. 3 games and 4 subjects D. 3 games and 5 subjects

23. A ladder 15 m long reaches a window which is 9 m above the ground on one side of a street. Keeping its foot at the same point, the ladder is turned to other side of the street to reach a window 12 m high. Find the width of the street.

- A. 15 m B. 21 m C. 18 m D. 13 m

24. A tower is $100\sqrt{3}$ metres high. Find the angle of elevation of its top from a point 100 metres away from its foot.

- A. 40° B. 50° C. 60° D. 70°

IN EACH OF THESE QUESTIONS A RELATED PAIR OF WORDS IS FOLLOWED BY FOUR PAIRS OF WORDS. SELECT THE PAIR THAT BEST EXPRESSES A RELATIONSHIP SIMILAR TO THE ONE EXPRESSED IN THE ORIGINAL PAIR.

25. Glove: Ball ::
- A. Hook: Fish B. Game: Cricket C. Winter: Summer D. Rock: Mountain
26. Snake: Reptile ::
- A. Question: Answer B. Black: White C. Clock: Time D. Red: Colour
27. Black: White ::
- A. Day: Night B. Bright: Colours C. Monday: Days D. Climate: Summer
28. Qutab Minar: Delhi ::
- A. Eiffel Tower: New York B. Big Ben: Chicago
C. Pyramids: Egypt D. Hanging Gardens: Mexico

ANSWER THESE QUESTIONS BASED ON THE FOLLOWING STATEMENTS.

Two friends, A and B are traveling by the same train. A's compartment is the 18th from the end and B's compartment, 17th from the beginning. They have 8 compartments between them.

29. What is the total number of compartments?
- A. 26 B. 25 C. 27 D. 28
30. If the dining car is between 11th and 12th compartments, how many compartments has A to cross to reach it?
- A. 3 B. 4 C. 7 D. 2

SECTION - 4

GENERAL KNOWLEDGE

1. How many seats are there in the Lok Sabha
A. 548 B. 536 C. 539 D. 543
2. Laxman is the son of
A. Kunti B. Kaikeyi C. Manthra D. Sumitra
3. Name the capital of Israel
A. Jerusalem B. Tel Aviv C. Amman D. Bethlehem
4. Name the capital of Ireland
A. Belfast B. Dublin C. Calgary D. Newark
5. Name the capital of Meghalaya
A. Dispur B. Aizwal C. Agartala D. Shillong
6. Which is the highest constitutional authority in India
A. Chief Justice B. Governor C. President D. Prime Minister
7. Panchali was the wife of
A. Rama B. Krishna C. Kauravas D. Pandavas
8. Who amongst the following was India's official candidate for the post of UNO's Secretary General ?
A. Mr. Shyam Saran B. Dr. C. Rangarajan
C. Mr. Shashi Tharoor D. Mr. Vijay Nambiar
9. Mr. Gordon Brown has taken over as the Prime Minister of—
A. Italy B. Canada C. France D. Britain
10. Name of Jyoti Randhawa is associated with which of the following games ?
A. Golf B. Badminton C. Hockey D. Chess

11. Thermostat is an instrument used to —
- A. measure flow of current B. measure intensity of voltage
C. regulate temperature D. regulate velocity of sound
12. Wimbledon Trophy is associated with —
- A. Football B. Cricket C. Hockey D. Lawn Tennis
13. 'Acoustics' is the science of the study of —
- A. Light B. Sound C. Electricity D. Magnetism
14. Noise pollution is measured in the unit called —
- A. micron B. ohms C. ampere D. decibel
15. 'Heavy Water' is used in which of the following types of industries ?
- A. Sugar B. Nuclear Power C. Textile D. Coal
16. Who amongst the following is the author of the book 'Indomitable Spirit'?
- A. Dr. A.P.J. Abdul Kalam B. Dr. Manmohan Singh
C. Justice K. G. Balakrishna D. Mr. Natwar Singh
17. Which of the following is not the name of popular IT/Software Company ?
- A. Wipro B. Toyota C. IBM D. Infosys
18. 'Yen' is the currency of—
- A. South Korea B. China C. Indonesia D. Japan
19. Baichung Bhutia whose name was in news is a well known —
- A. Music Director of Indian films B. English author of Indian origin
C. Journalist D. Sports Personality
20. 'Richter Scale' is used to measure which of the following ?
- A. Intensity of Tsunami Waves B. Intensity of Earthquake
C. Density of salt in Sea water D. Flow of electric current

21. Which of the following best explains 'e-governance'?
- A. Improving the functioning of government
 - B. Teaching government employees the basics of computing
 - C. Delivery of public services through internet
 - D. Framing of cyber-laws of chatting on internet
22. Tata Steel recently acquired the Corus, a steel giant situated in —
- A. South Africa
 - B. Ukraine
 - C. Australia
 - D. Britain
23. Which of the following books has been written by Bill Gates ?
- A. Microsoft Secrets
 - B. The Road Ahead
 - C. The Elephant Paradigm
 - D. E-commerce
24. Which of the following is the name of the social network service run by the Google on the internet?
- A. Online Space
 - B. Orkut
 - C. Net-Space
 - D. Wikipedia
25. Who is the author of the book 'Future Shock' ?
- A. Alvin Toffler
 - B. Tom Peters
 - C. Napoleon Hill
 - D. Kenneth Blanchard
26. Apex fares are —
- A. more than the normal fare
 - B. less than the normal fare
 - C. offered only to corporate clients
 - D. applicable to late night flights only
27. Who amongst the following is the author of the book series named as 'Harry Potter' ?
- A. J. K. Rowling
 - B. Lindsay Lohan
 - C. Julia Roberts
 - D. None of these
28. Which of the following phenomenon is considered responsible for 'Global Warming' ?
- A. Greenhouse Gas Effect
 - B. Fox Fire
 - C. Dry Farming
 - D. Radioactivity
29. Abhimanyu was the son of —
- A. Yudhishthira
 - B. Sahadev
 - C. Bhima
 - D. Arjun
30. ———— is the Goddess of Learning
- A. Sita
 - B. Savitri
 - C. Saraswati
 - D. Parvati