



# PANDIT DEENDAYAL PETROLEUM UNIVERSITY

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## School Of Liberal Studies

ADMISSION 2010

### • QUESTION PAPER

TIME : 90 MINUTES

NUMBER OF QUESTIONS : 120

SECTIONS : 4

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

Please note that for each Wrong Answer 0.25 marks will be deducted.

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.

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**EACH SECTION CARRIES  
30 QUESTIONS**

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SECTION - 1

ENGLISH

SECTION - 2

QUANTITATIVE APTITUDE

SECTION - 3

LOGICAL REASONING

SECTION - 4

GENERAL KNOWLEDGE

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# SECTION - 1

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# ENGLISH

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IN THE FOLLOWING QUESTIONS, FOUR ALTERNATIVES ARE GIVEN FOR THE WORD IN ITALICS IN THE SENTENCE. CHOOSE THE ONE WHICH BEST EXPRESSES THE MEANING OF THE WORD IN ITALICS.

1. That lady has been an *elusive* customer.  
A. Trustworthy      B. Unpredictable      C. Argumentative      D. Rich
2. (B) As a student, his academic performance has been *average*.  
A. Outstanding      B. Surprising      C. Mediocre      D. Volatile
3. (C) To *understand* this question, you should think for a few minutes.  
A. Comprehend      B. Attempt      C. Omit      D. Speak
4. In spite of my arguments, still she showed *disagreement*.  
A. Descent      B. Dissent      C. Distance      D. Disturbance
5. A true liberal study student believes in the *welfare of fellow-men*.  
A. Alternative      B. Anthropology      C. Agnostic      D. Altruism

FIND OUT AN OPPOSITE WORD FOR AN UNDERLINED WORD FROM THE GIVEN OPTION.

6. (1) The new boss is known for his rigid approach to all problems.  
A. Swift      B. Sympathetic      C. Flexible      D. Logical
7. Adversity is the source of many vices  
A. Prosperity      B. Variety      C. Vanity      D. Unity
8. His repulsive behavior makes him unpopular everywhere.  
A. Constructive      B. Obstructive      C. Attractive      D. Conclusive
9. Casual remarks made by her created conflict in the meeting.  
A. Careful      B. Flawless      C. Wonderful      D. Sincere





the other national party or becoming part of an alliance on an all-India basis. These parties fight for greater access to central resources and not for their own separate and fuller control over the region's resources for they already enjoy that.

(From *India Since Independence*, Bipin Chandra, Mridula Mukherjee & Aditya Mukherjee, Penguin Books, India, 2000)

21. The major success of India, mentioned in the passage is
- A. Social churning  
B. Handling problems of tribals  
C. Strong national unity  
D. Reduction of regional inequality
22. Find out a synonym for multiplicity from the passage -
- A. Disparity  
B. Diversity  
C. Entity  
D. Unity
23. What is 'indianness' as indicated in the passage?
- A. Indians being one people.  
B. Reorganizing linguistic states.  
C. Singing national anthem.  
D. Controlling national resources.
24. What is the opinion of writers?
- A. The road to national unity has been without challenges.  
B. There are serious threats for national unity.  
C. Challenges to national unity have been more or less overcome.  
D. None of the above.
25. Separatist movements have been handled.
- A. Firmly without any feelings  
B. Mildly  
C. Firmly with emotional understanding  
D. Sympathetically
26. What is an antonym of 'strong' which is mentioned in the passage?
- A. Fragile  
B. Official  
C. Complex  
D. Intricate
27. Regional parties enjoy power at the Centre by
- A. Getting clear majority nation-wide.  
B. Allying with a National party.  
C. Effectively launching electoral campaign.  
D. Fighting the elections alone.

28. What is internal colonialism?

- A. Exploitation of the under-privileged region by a prosperous region in the country itself
- B. British-raj
- C. Establishing colonies
- D. Sharing of power

29. What is the mood of the writers?

- A. They are confident of national unity
- B. They do not want to predict future condition
- C. They are concerned about national unity
- D. None of the above

30. Regional parties strive for

- A. Regional resources
- B. Central resources
- C. Natural resources
- D. Human resources

SECTION  
QUANTITATIVE  
APTITUDE



## **SECTION - 2**

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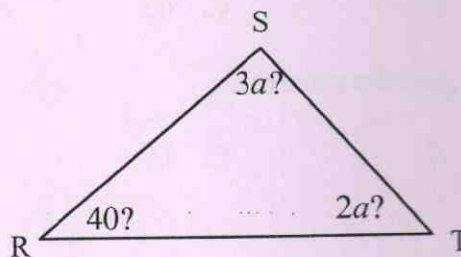
# **QUANTITATIVE APTITUDE**

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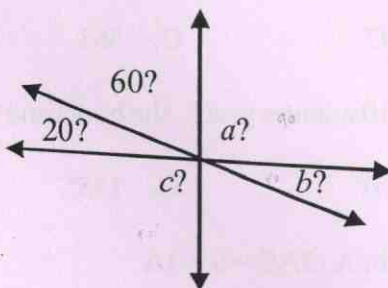
1. If one-seventh of a number exceeds its eleventh part by 100 then the number is...  
A. 770                      B. 1100                      C. 1825                      D. 1925
2. Monika can do a piece of work in 30 days. She worked at it for 10 days. The remaining work was finished by Rahul in 24 days. Had they worked together, how many days would it have taken to finish the work?  
A. 14.5                      B. 15.4                      C. 16.3                      D. 17.2
3. A train 120 metres long passes an electric pole in 12 seconds and another train of same length traveling in opposite direction in 8 seconds. The speed of the second train is  
A. 60 Km                      B. 66 Km                      C. 72 Km                      D. 80 Km
4. If the true discount on a sum due 2 years hence at 14% per annum be Rs. 168, the sum due is:  
A. Rs. 768                      B. Rs. 968                      C. Rs. 1960                      D. Rs. 2400
5. If a quarter kg of potato costs 60 paise, how many paise will 200 gm cost?  
A. 48 paise                      B. 54 paise                      C. 56 paise                      D. 72 paise
6. The average of 5, 10, 15, and x is 20. What is x?  
A. 0                      B. 20                      C. 40                      D. 45
7.  $7.95 \div 1.5$   
A. 2.4                      B. 5.3                      C. 6.2                      D. 7.3
8. If  $a - b = 3$  and  $a^2 + b^2 = 29$ , find the value of  $ab$ .  
A. 10                      B. 12                      C. 15                      D. 18
9.  $-32 + 7$  equals:  
A. -25                      B. 25                      C. -26                      D. 26
10. What decimal of an hour is a second ?  
A. 0.0025                      B. 0.0256                      C. 0.00027                      D. 0.000126

11. What percent of 90 is 27?  
A. 15%      B. 20%      C. 30%      D. 33%
12. Which of the following correctly identifies 4 consecutive odd integers where the sum of the middle two integers is equal to 24?  
A. 5, 7, 9, 11      B. 7, 9, 11, 13      C. 9, 11, 13, 15      D. 11, 13, 15, 17
13. What is the next number in the sequence? 6, 12, 24, 48, \_\_\_\_  
A. 72      B. 96      C. 108      D. 112
14. What is the probability that a two digit number selected at random will be a multiple of '3' and not a multiple of '5'?  
A.  $\frac{2}{15}$       B.  $\frac{4}{15}$       C.  $\frac{1}{15}$       D.  $\frac{4}{90}$
15. A can give B a start of 50 metres or 10 seconds in a kilometer race. How long does A take to complete the race?  
A. 200 seconds      B. 140 seconds      C. 220 seconds      D. 190 seconds
16. Find the greatest number of five digits, which is exactly divisible by 7, 10, 15, 21 and 28.  
A. 99840      B. 99900      C. 99960      D. 99990
17. In the figure below, what is the value of  $a$ ?



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

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



- A. 210                      B. 220                      C. 240                      D. 270
19. Trader makes a profit equal to the selling price of 75 articles when he sold 100 of the articles. What % profit did he make in the transaction?
- A. 33.33%                      B. 75%                      C. 300%                      D. 150%
20. 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
21. 252 can be expressed as a product of primes as:
- A.  $2 \times 2 \times 3 \times 3 \times 7$                       B.  $2 \times 2 \times 2 \times 3 \times 7$                       C.  $3 \times 3 \times 3 \times 3 \times 7$                       D.  $2 \times 3 \times 3 \times 3 \times 7$
22. 45% of 500 equals
- A. 210                      B. 250                      C. 220                      D. 225
23. The salaries A, B, C are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?
- A. 3 : 3 : 10                      B. 10 : 11 : 20  
C. 23 : 33 : 60                      D. Cannot be determined
24. Find the odd one out... 6, 9, 15, 21, 24, 28, 30
- A. 28                      B. 21                      C. 24                      D. 30
25. Find the missing number... 5, 10, 13, 26, 29, 58, 61, (....)
- A. 122                      B. 64                      C. 125                      D. 128

26. The square root of 64009 is:
- A. 253                      B. 347                      C. 363                      D. 803
27. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:
- A.  $145^\circ$                       B.  $150^\circ$                       C.  $155^\circ$                       D.  $160^\circ$
28. Solve the following equation for A :  $2A/3 = 8 + 4A$
- A. -2.4                      B. 2.4                      C. 1.3                      D. -1.3
29. What is 1230.932567 rounded to the nearest hundredths place?
- A. 1200                      B. 1230.9326                      C. 1230.93                      D. 1230
30. Arun, Kamal and Vinay invested Rs. 8000, Rs. 4000 and Rs. 8000 respectively in a business. Arun left after six months. If after eight months, there was a gain of Rs. 4005, then what will be the share of Kamal?
- A. Rs. 890                      B. Rs. 1335                      C. Rs. 1602                      D. Rs. 1780



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## SECTION - 3

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# LOGICAL REASONING

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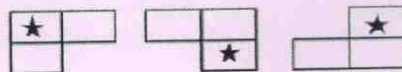
**FOR QUESTION NUMBER 1 TO 7. IN EACH OF THE FOLLOWING QUESTIONS, FOUR WORDS HAVE BEEN GIVEN OUT OF WHICH THREE ARE ALIKE IN SOME MANNER, WHILE THE FOURTH ONE IS DIFFERENT. CHOOSE OUT THE ODD ONE..**

1. A. Curd                      B. Butter                      C. Oil                      D. Cheese
2. A. Kanpur                      B. Allahabad                      C. Varanasi                      D. Chandigarh
3. A. Geometry                      B. Algebra                      C. Trigonometry                      D. Mathematics
4. A. Tomato                      B. Cucumber                      C. Brinjal                      D. Carrot
5. A. Copper                      B. Zinc                      C. Brass                      D. Aluminum
6. A. January                      B. May                      C. November                      D. July
7. A. Haryana                      B. Jharkhand                      C. Chhattisgarh                      D. Andhra Pradesh
8. In certain code, TEACHER is written as VGCEJGT. How is CHILDREN written in that code?  
A. EJKNEGTP                      B. EGKNFITP                      C. EJKNFGTO                      D. EJKNFTGP
9. Tennis is related to Court in the same way as Boxing is related to .....?.....  
A. Pool                      B. Ring                      C. Arena                      D. Course
10. Soap is related to wash in the same way as Broom is related to .....?.....  
A. Clean                      B. Dust                      C. Sweep                      D. Floor
11. What number should replace the question mark?

6	14	5	4
8	4	2	6
9	16	5	5
7	7	2	7
4	4	1	?

- A. 8                      B. 16                      C. 1                      D. 7

12.



What comes next?

- A.                      B.                      C.                      D.

13. Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday  
Which day comes immediately after the day which comes three days before the day which comes immediately after the day which comes three days before Friday?

A. Tuesday      B. Wednesday      C. Monday      D. Saturday

14. ED, GE, OW, EN, UE, GO,?  
Which two letters complete the above sequence?

A. ET      B. AN      C. VE      D. CH

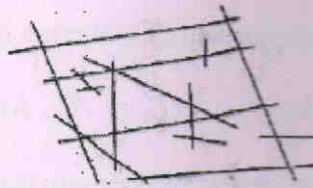
15. 3664 : 68  
2581 : 59  
1649 : ?

A. 47      B. 74      C. 56      D. 94

16. Which is the odd one out?

A.       B.       C.       D. 

17. How many lines appear below?



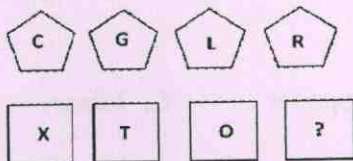
A. 13      B. 15      C. 14      D. 20

18. JANUARY  
FEBRUARY  
APRIL  
JULY  
NOVEMBER  
APRIL  
OCTOBER  
?

Which month comes next?

A. June      B. December      C. May      D. July

19. What letter should replace the question mark?



- A. I                      B. J                      C. H                      D. K

20. Write down the figure for thirteen thousand, thirteen hundred and thirteen.

- A. 1313013              B. 131313              C. 133113              D. 131303

21. Simplify  $6-7 \times 3+8 \div 2=$

- A. 71                      B. 3.5                      C. -10                      D. -11

22. Divide 56 by a quarter and add 7. How many have you got?

- A. 21                      B. 224                      C. 132                      D. 231

23. Which is the odd one out?



**FROM QUESTION 24 TO 30, COMPLETE THE ANALOGY**

24. Giant : Dwarf :: Genius : ?

- A. Wicked              B. Gentle              C. Idiot              D. Tiny

25. Newspaper : Press :: Cloth : ?

- A. Tailor              B. Textile              C. Fibre              D. Mill

26. Acting : Theatre :: Gambling : ?

- A. Casino              B. Club              C. Bar              D. Gymn

27. Mumbai : Maharashtra :: Trivandrum : ?

- A. Kolkata              B. Gujarat              C. Kerala              D. Sikkim



28. Menu : Food :: Catalogue : ?

- A. Rack                      B. Newspaper                      C. Library                      D. Books

29. Mango : Fruit :: Potato : ?

- A. Root                      B. Fruit                      C. Stem                      D. Flower

30. Smoke : Pollution :: War : ?

- A. Destruction                      B. Treaty                      C. Victory                      D. Peace

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## SECTION - 4

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# GENERAL KNOWLEDGE

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1. Whose signature is found on one rupee note in India ?
  - A. Governor, Reserve Bank of India
  - B. Finance Secretary, Ministry of Finance Government of India
  - C. Finance Minister, Govt. of India
  - D. President of India
  
2. Which film bagged the Best Film of the 10th International Indian Film Academy Awards distributed in June 2009 ?
  - A. Tare Zameen Par
  - B. Jodha Akbar
  - C. Gazani
  - D. Akasa Kusum
  
3. Name of India's indigenously developed Light Combat Aircraft is :
  - A. Power
  - B. Rudra
  - C. Kranti
  - D. Tejas
  
4. Which planet is in the outer most orbit of the solar system ?
  - A. Saturn
  - B. Jupiter
  - C. Venus
  - D. Pluto
  
5. Which of the following is the capital of Lakshdweep ?
  - A. Kavaratti
  - B. Aizwal
  - C. Port Blair
  - D. Silvassa
  
6. The 29th Olympic Games were played in August 2008 in Beijing. Where will the 30th Olympic games be played in 2012 ?
  - A. Osaka
  - B. Toronto
  - C. London
  - D. Istanbul
  
7. A fuse wire is used in an electric circuit to :
  - A. Minimise loss of electrical energy in transmission
  - B. Maintain constant voltage level
  - C. Prevent excessive current from passing through the circuit
  - D. Prevent heating of electric wire
  
8. Who won the Femina Miss India world title for 2010 ?
  - A. Neha Kapoor
  - B. Manasvi Mamgai
  - C. Amrita Pal
  - D. Nicole Faria
  
9. On which day is World Environment Day celebrated
  - A. June 5
  - B. July 15
  - C. May 4
  - D. June 1
  
10. In which city did a major air disaster of Air India take place recently?
  - A. Mangalore
  - B. Bangalore
  - C. Chennai
  - D. Delhi

11. The southern most tip of India is :
- A. Lakshadweep  
C. Indira Point
- B. Kanyakumari  
D. Rameshwaram
12. In which city is the country's largest stadium located?
- A. Kolkata  
B. Delhi  
C. Patiala  
D. Chandigarh
13. In which city is the country's largest prison located?
- A. Lucknow  
B. Kolkata  
C. Kanpur  
D. Delhi
14. Which is the largest orange-growing state?
- A. Maharashtra  
B. Punjab  
C. Orissa  
D. Madhya Pradesh
15. Name the first Indian soap opera which was telecast from July 1984 to December 1985.
- A. Hum Log  
B. Buniyad  
C. Rajani  
D. Khaandan
16. In which state is the longest canal located?
- A. Rajasthan  
B. Gujarat  
C. Punjab  
D. Haryana
17. In which city was the first milk powder plant set up?
- A. Anand  
B. Delhi  
C. Chandigarh  
D. Patiala
18. 'The mountain range which forms the Western boundary of the Indian sub-continent is called :
- A. Aravali  
B. Satpura  
C. Pirpanjal  
D. Hindukush
19. Vitamin 'A' is necessary in our body for :
- A. Prevention of blood clotting  
C. Proper vision
- B. Haemoglobin synthesis  
D. Improving digestion
20. Which of the following chemicals is used in the making of photographic films ?
- A. Sodium chloride  
C. Aluminium hydroxide
- B. Silver bromide  
D. None of the above



21. Name the last pop album of Michael Jackson to be released after his death?
- A. Billie Jean  
C. This is it
- B. Across Abbey Road  
D. Bridge Over Troubled Waters
22. Who is the Director of 'Three Idiots'?
- A. Prakash Jha  
B. Raju Hirani  
C. Priyadarshan  
D. Vipul Shah
23. Where is the FIFA World Cup being held this year?
- A. England  
B. Brazil  
C. South Africa  
D. Italy
24. Who wrote the book 'Dreams from my Father - A story of Race and inheritance'?
- A. Al Gore  
B. Barack Obama  
C. Nelson Mandela  
D. Sammy Davis
25. Who wrote the book 'Five Point Someone'?
- A. Arvind Adiga  
B. Chetan Bhagat  
C. Vikram Seth  
D. Amitav Ghosh
26. What does the Italian word 'graffiti' mean?
- A. Oil painting  
C. Scratched wall drawings
- B. Stained glass  
D. Abstract Art
27. Which city is the Capital of United Arab Emirates?
- A. Dubai  
B. Abu Dhabi  
C. Sharjah  
D. Ankara
28. The Punjabi word 'Sikh' means
- A. Priest  
B. Disciple  
C. Spiritual Leader  
D. Pure
29. What does PETA stand for?
- A. Programme for Environmental Tracking Activities  
B. People for Ethical Treatment of Animals  
C. Programme for Employment of Tribal Artisans  
D. Proactive Engagement in Tribal Activism
30. Name of Jyoti Randhawa is associated with which of the following games?
- A. Golf  
B. Badminton  
C. Hockey  
D. Chess