

LetConceptual.com

14. Imam Ali Raza (son in law) of Mamoon-ur-Rashid was buried in Toos now called:
 (A) Merv (B) Anbar
 (C) Koofa (D) Mash'had
15. The last Abbaside Caliph was:
 (A) Nasiruddin Ullah
 (B) Zahir -bin- Amrillah
 (C) Mustansar Billah
 (D) Mustasim Billah
16. The last ruler of Umayyad Dynasty in Spain was:
 (A) Abdur-Rehman Al-Mustazher
 (B) Al-Mustakfi
 (C) Hasham-ak-Mo'tamed Billah
 (D) Mendi
17. "A Short History of Saracens" was written by:
 (A) M.M. Shareef
 (B) Abdul Kalam Azad
 (C) H P Blavatsky
 (D) Syed Ameer Ali
18. Punjab Public Service Commission was formed under Indian Act of:
 (A) 1909 (B) 1919
 (C) 1932 (D) 1935
19. In 1929 Unionist Party was founded in Punjab by:
 (A) Inayat ullah Mashraqi
 (B) Mian Fazal e Hussain
 (C) Sardar Shaukat Hayat
 (D) Suleman Nadvi
20. Which of the Constitutional Amendment in the 1973 Constitution, abolished Presidential powers to dissolve Parliament?
 (A) 16th (B) 17th
 (C) 18th (D) 19th
21. Hammurabi was the great Law giver of:
 (A) Egypt (B) Greece
 (C) Spain (D) Mesopotamia
22. Which was the biggest religion in Arabia before Islam?
 (A) Christianity (B) Zoroastrianism
 (C) Idolatry (D) Judaism
23. Which territory was ruled by Najjashi?
 (A) Yemen (B) Habsha
 (C) Iraq (D) Syria
24. Who was called the Brain of Arabia?
 (A) Hazrat Khalid Bin Walid (R.A.)
 (B) Hazrat Mugeera Bin Shoba (R.A.)
 (C) Hazrat Amr Bin Aas (R.A.)
 (D) Hazrat Muawiah (R.A.)
25. To which place had Hazrat Ali Murtaza (R.A.) shifted his capital?
 (A) Basra (B) Kufa
 (C) Makkah (D) Faslal
26. Who abolished Jizya on new converts?
 (A) Hazrat Abdullah Bin Zubair (R.A.)
 (B) Hajaj Bin Yousaf
 (C) Hazrat Umar Bin Abdul Aziz (R.A.)
 (D) Hasham
27. How long did Raja Chach rule Sind?
 (A) 39 years (B) 40 years
 (C) 41 years (D) 42 years
28. Dr. Gibbon was a
 (A) Christian preacher
 (B) A famous poet
 (C) A renowned historian
 (D) Archaeologist
29. Who had authored "Tabqat-e-Nasri"?
 (A) Farishta
 (B) Hassan Nizami
 (C) Badayuni
 (D) Minhaj-us-Siraj
30. Identify Banda Bairagi:
 (A) A merciless Sikh rebel
 (B) A preacher
 (C) A hermit
 (D) A pandit
31. June 1757 Battle of Plassey was fought between the forces of East India Company and:
 (A) Nadar Shah Durrani
 (B) Siraj-ud-daulah
 (C) Ahmad Shah Abdali
 (D) Bahadur Shah
32. In October 1905 the British government partitioned the Bengal for the sake of:
 (A) Administrative Convenience
 (B) Hindu Muslim Unity
 (C) Muslim Benefit
 (D) Electoral Adjustment
33. Montagu-Chelmsford reforms introduced a system called:
 (A) Monarchy (B) Theocracy
 (C) Aristocracy (D) Diarchy
34. Nazimuddin was forced to resign as Prime Minister by Governor General:
 (A) M A Jinnah
 (B) Ghulam Muhammad
 (C) Iskandar Mirza
 (D) None of these
35. In East Pakistan, Elections 1970 were swept by:
 (A) PPP (B) NAP (Bhashani)
 (C) AL (D) JI
36. Hazrat Aamina belonged to which famous tribe:
 (A) Banu Makhzoom
 (B) Banu Asad
 (C) Barm Zohra
 (D) Banu Umayyah
37. In the 10th Nabvi year which very near Uncle of the Holy Prophet (PBUH), died?
 (A) Hazrat Hamza (B) Hazrat Abu Talib
 (C) Hazrat Abbas (D) Hazrat Zubair
38. Caliph Hazrat Usman (RA) allowed whose family to come back once it had been exiled by Holy Prophet (PBUH):
 (A) Ameer Muawia
 (B) Hakam bin Aas

LECTURER ENGLISH MODEL PAPER-1

Questions taken from Previous PPSC Lecturers and Subject Specialist Papers

1. The poem, "The Marriage of Heaven and Hell" was written by:
(a) Shelley (b) Blake (c) Byron (d) Browning
2. An aesthetic delight in art and a streak of extreme sadistic cruelty can be observed in Browning's Poem:
(a) Paracelsus (b) My Last Duchess (c) Sordello (d) Pippa Passes
3. "Art for arts sake" found its true adherent in:
(a) Wordsworth (b) Byron (c) Browning (d) Wilde
4. After whom is the Elizabethan Age named?
(a) Elizabeth-I (b) Elizabeth-II (c) Elizabeth Browning (d) None of these
5. What is the name of Wordsworth's long poem?
(a) The Canterbury Tales (b) Don Juan
(c) The Prelude (d) None of these
6. A poem mourning someone's death is called:
(a) Fable (b) Epic (c) Elegy (d) None of these
7. Which of the following is not a tragedy written by Shakespeare?
(a) Macbeth (b) Othello (c) Merchant of Venice (d) None of these
8. Who wrote "The Second Coming"?
(a) E. Spencer (b) Eliot (c) W. B. Yeats (d) None of these
9. What period in English Literature is called the "Augustan Age"?
(a) Early 16th Century (b) 17th Century (c) Early 18th Century (d) None of these
10. Which play among the following plays is not blank verse?
(a) Hamlet (b) The Jew of Malta (c) Pygmalion (d) None of these
11. Which one of the following writers is not woman?
(a) Emily Bronte (b) Jane Austen (c) Robert Browning (d) None of these
12. It as the best of times, it was the worst of time, it was the worst – the opening of Dickens'
(a) Hard Times (b) David Copperfield (c) Oliver Twist (d) A Tale of Two Cities
13. The character of Little Nell is a creation of:
(a) Hardy (b) Eliot (c) Oscar Wilde (d) Dickens
14. "Idylls of the King" is illustration of Tennyson's deep interest in:
(a) Medieval legends (b) The role of the king
(c) Hero worship (d) The contemporary condition
15. Who believed that poetry is the spontaneous overflow of emotions?
(a) Blake (b) Byron (c) Wordsworth (d) Keats
16. Who after the publication of a poem, awoke and found himself famous?
(a) Shelley (b) Browning (c) Wordsworth (d) Keats
17. The image of the femme fatale dominates the poetry of:
(a) Wordsworth (b) Keats (c) Byron (d) Tennyson
18. Little Time is a character in Hardy's
(a) The return of the native (b) Jude the Obscure
(c) Mayor of Casterbridge (d) None of these

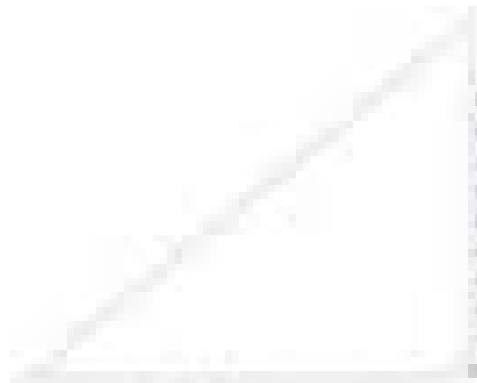
PMS PAPER 2012

Time allowed: 2 hours

Max. Marks: 100

- (i) Candidates must following instructions given on the reverse of answer sheet before attempting the question paper.
- (ii) All answers are required to be written on the answer sheet and not on the question papers.
- (iii) All questions carry equal marks.
- (iv) For each 15 correct answer given 1/3 marks will be deducted.
- (v) Use of calculator is not allowed.

1. Copenhagen is city in
 - (a) Denmark
 - (b) Sweden
 - (c) Norway
 - (d) Finland
2. Indonesia and Malaysia are separated by
 - (a) Indonesian channel
 - (b) Gulf of Malacca
 - (c) Java Sea
 - (d) Sulu Sea
3. Capital of Switzerland is
 - (a) Lyon
 - (b) Prague
 - (c) Bern
 - (d) Zurich
4. Myanmar is the near neighbor of
 - (a) China
 - (b) Japan
 - (c) Thailand
 - (d) Indonesia
5. Moscow and Spain are
 - (a) Faraway cities
 - (b) Neighboring cities
 - (c) Near cities
 - (d) Distant cities
6. The Apex elected body in India is called
 - (a) Congress
 - (b) Lok Sabha
 - (c) Parliament
 - (d) State
7. Communist Revolution took place in the month of
 - (a) June
 - (b) March
 - (c) April
 - (d) November
8. Paltan is an important town located in the land of
 - (a) Uttar Pradesh
 - (b) Bihar
 - (c) West Bengal
 - (d) Madhya Pradesh
9. The name of U.S. Envoy for Afghanistan and Pakistan is
 - (a) Richard Holbrooke
 - (b) Larry Finkle
 - (c) Steve Crozza
 - (d) Robert Gates
10. Defective means
 - (a) Broken or a fault
 - (b) Legal
 - (c) Defective
 - (d) Deficient
11. Carter Diarrhoea means
 - (a) Itch in the motion
 - (b) Going by the river
 - (c) A diarrhoea
 - (d) Not economically possible
12. Dependence means
 - (a) Things to be controlled
 - (b) Agents of the meeting
 - (c) Study of some person
 - (d) Correspondence



1. The first step in the process of...
2. The second step is to...
3. The third step is to...
4. The fourth step is to...
5. The fifth step is to...
6. The sixth step is to...
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- 11. The eleventh step is to...
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- 13. The thirteenth step is to...
- 14. The fourteenth step is to...
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- 27. The twenty-seventh step is to...
- 28. The twenty-eighth step is to...
- 29. The twenty-ninth step is to...
- 30. The thirtieth step is to...
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- 35. The thirty-fifth step is to...
- 36. The thirty-sixth step is to...
- 37. The thirty-seventh step is to...
- 38. The thirty-eighth step is to...
- 39. The thirty-ninth step is to...
- 40. The fortieth step is to...
- 41. The forty-first step is to...
- 42. The forty-second step is to...
- 43. The forty-third step is to...
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- 45. The forty-fifth step is to...
- 46. The forty-sixth step is to...
- 47. The forty-seventh step is to...
- 48. The forty-eighth step is to...
- 49. The forty-ninth step is to...
- 50. The fiftieth step is to...



- The World Humanitarian Summit (WHS) conference was held on 23-24 May, 2018 in
 - Cairo, Egypt
 - New York, USA
 - Istanbul, Turkey
 - Paris, France
- Which punishment was introduced by Hazrat Umar (R.A)?
 - Exile
 - Death
 - Imprisonment
 - Cutting of hands
- Bhagat Singh was hanged by the British in
 - Dunrawala
 - Faisalabad (Lyallpur)
 - Lahore
 - Delhi
- Secretary General of the United Nations, Mr. Ban Ki Moon, belongs to which country?
 - Democratic People's Republic of Korea
 - Republic of Korea
 - Vietnam
 - Singapore
- What is the national game of Pakistan?
 - Hockey
 - Cricket
 - Kabaddi
 - Squash
- What is the name of the current Federal Tax Ombudsman of Pakistan?
 - Saiman Farooq
 - Tahir Saleh
 - Shahid Siddiqi
 - Abdur Rauf Chaudhry
- A Barometer is a device used to measure
 - Humidity
 - Atmospheric Pressure
 - Room Temperature
 - Sal in sea water
- Name the Prime Minister of Turkey who resigned early in May 2015.
 - Ernal Yildirim
 - Abdul Davutoglu
 - Recep Tayyip Erdogan
 - Abdullah Gul
- If 10 per cent of a number is 12.5, find the number?
 - 45
 - 38
 - 40
 - 42
- If 10 rats catch 10 rats in 10 seconds, How many rats are required to catch 100 rats in 100 seconds?
 - 100
 - 10
 - 20
 - 50
- Which night's "Baker", during the month of Ramadan, is considered better than "Baker" of thousand months?
 - Lailat-ul-Qadar
 - Shab-e-Baraat
 - Shab-e-Milad
 - None of these
- The disease Diphtheria affects which part of human body?
 - Lungs
 - Intestines
 - Throat
 - Joints
- Which Pakistani personality has served as the President of the UN General Assembly?
 - A. B. (Feroze) Khan
 - Sir Zafarullah Khan
 - Agha Shahid
 - Dr. Mamtha Lodhi
- Who is the author of the Book "Kashmir-A Cleared Legacy"?
 - Abdur Latif
 - Jamil Akbar
 - Lateef Jilani
 - Dr. Akbar S. Ahmad
- Prince Dara Shikoh was son of which Mughal Emperor?
 - Akbar
 - Jahangir
 - Aurangzeb
 - Shahjahan
- Which of the following is used for disinfection of water?
 - Oxygen
 - Hydrogen
 - Fluorine
 - Chlorine
- What is the Antonym of Equality?
 - Prevalence
 - Poverty
 - Abundance
 - Scarcity

31. Roger Penz is associated with:-
 (a) Quanta and C.P. Khan (b) Quanta and Cherenkov
 (c) Gamma and Landau (d) H₂O and Matter
32. Heaviest part of atmosphere is water is called
 (a) Troposphere (b) Mesosphere (c) Stratosphere (d) Ionosphere
33. Colossus an electromechanical was built in
 (a) Persia (b) Rome (c) Spain (d) France
34. Special theory of relativity was proposed by
 (a) Galileo (b) Albert Einstein
 (c) Isaac Newton (d) James Clerk Maxwell
35. Isaac Newton gave
 (a) Law of Geometry (b) None of these
 (c) Law of Planetary Motion (d) Laws of Motion and Laws of Gravitation
36. "Classification of Architectural" is written by
 (a) Adolf Loos (b) The Architects
 (c) Sir Rudolf (d) Frank A. Lloyd Wright
37. The book, "Al-Quran Fi Yaq" is written by
 (a) Al-Baladhi (b) Ibn-Rustah (c) Al-Biruni (d) Abu-Al-Fida
38. Clyde Lee is longest shore along
 (a) Atlantic Sea (b) East Sea
 (c) Pacific Sea (d) Mediterranean Sea
39. Growth Domestic Product in Pakistan is growing at the rate of
 (a) 3.4% (b) 3.7% (c) 4.2% (d) 4%
40. Agriculture, the key sector in the Pakistan economy accounts for
 (a) 45% of GDP (b) 37% of GDP (c) 27% of GDP (d) 20% of GDP
41. The earth is more closer to Sun in
 (a) January (b) June (c) July (d) September
42. Time required for a computer to locate and transfer data is called
 (a) Access time (b) Storage time (c) Access time (d) Transfer time
43. A device which encodes characters by the depression of keys is known as
 (a) Keyboard (b) Mouse (c) Hard Drive (d) Printer
44. Mixture of two metals is called
 (a) Alloy (b) Compound (c) Alloy (d) Hard Drive
45. The area inside a computer frame and auxiliary storage where data and instructions are stored is called
 (a) Memory (b) Reserve (c) Paper (d) Processor
46. An extremely small piece of silicon on which integrated circuits are manufactured is called
 (a) Feed (b) Network Core (c) Chip (d) Card reader
47. The time taken by light to reach earth from the Sun is
 (a) 10 minutes 30 seconds (b) 10 minutes 30
 (c) 8 minutes 30 seconds (d) 8 minutes 30 seconds

116 In 1951 the first Annual Conference was held at:

- a. Jalandhar
b. Chandigarh
c. Agra
d. Dehra Dun

117 Madras State was established in:

- a. 1956
b. 1954
c. 1955
d. 1953

118 Indian National Congress was established by:

- a. Lord Dalhousie
b. M. K. Das
c. A. O. Hume
d. W. W. Hunter

119 Who succeeded partition of Bengal?

- a. Lord Dalhousie
b. Lord Warren
c. Lord Curzon
d. Lord Ripon

120 When did the All India Institute of Medical Sciences, Lucknow:

- a. 1908
b. 1921
c. 1906
d. 1911

121 Hyderabad was dominated by the Marathas in:

- a. 1760
b. 1680
c. 1700
d. 1670

122 At the end of the First World War British Government introduced:

- a. Communal Award
b. Montagu-Chelmsford Reforms
c. Simon Commission
d. None of these

123 The constitution of Madhya Pradesh was adopted in:

- a. November 1956
b. March 1953
c. November 1954
d. March 1954

124 Mahatma's Constructive Program implied a form of government which had to be:

- a. Federal
b. Presidential
c. Parliamentary
d. Quasi-Federal

125 Dr. B. R. Ambedkar visited India in:

- a. 1947
b. 1948
c. 1942
d. None of these

126 Sir James Burnham, the leader of the United Party was succeeded by:

- a. Sir Khwaja Nazimuddin
b. Sir Feroz Khan Noon
c. Sir Ghulam Mustafa Khan
d. Masood Ghulam Khan

127 When did Lord Mountbatten, as Viceroy, arrive in India?

- a. March 20, 1947
b. March 21, 1947
c. March 22, 1947
d. March 23, 1947

128 Constitution of 1958 was drawn during the tenure of:

- a. Feroz Khan Noon
b. Masood Ghulam Khan
c. Muhammad Ali Jinnah
d. None of these

129 The Cabinet of Khwaja Nazimuddin was dissolved in:

- a. 1950
b. 1952
c. 1951
d. 1953

130 The second Prime Minister of Pakistan was:

- a. Muhammad Ali Jinnah
b. Feroz Khan Noon
c. I. I. Chundrigar
d. Sir Feroz Khan Noon

131 Act of Independence was written by:

- a. Liaquat Ali Khan
b. D. D. Patai
c. B. R. Ambedkar
d. Victoria Golladay

132 During the regime a referendum was held in:

- a. 1979
b. 1980
c. 1984
d. 1985

133 Foreign direct investment in Pakistan equal to:

- a. 2.8%
b. 4.2%
c. 3.8%
d. 5.2%

134 What does UN-EPSCO stand for?

135 What does SAFTI stand for?

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**JUNIOR CLERK (SPS 11)
IN PUNJAB POLICE DEPARTMENT (2017)**

1. The word 'Clerk' is derived from
- (A) Greek (B) Latin
(C) Persian (D) Sanskrit
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PUNJAB PUBLIC SERVICE COMMISSION
WRITTEN TEST FOR RECRUITMENT TO THE POSTS OF
LECTURER ENGLISH (ES-17)
(MALE/FEMALE)
IN THE PUNJAB HIGHER EDUCATION DEPARTMENT 2011

Time Allowed: Two hours

Maximum Marks: 100

1. What position does Milton take in *Paradise Lost*?
 (a) To show how God defeated the rebellious angels
 (b) To justify the ways of God to man
 (c) To prove the superiority of Protestantism over Catholicism
 (d) To show how Adam and Eve made their way out of Hell
2. Milton is *Christ* when Samy first proposes a pact?
 (a) An heretic (b) A heron (c) A character's name in Hell (d) A Personality
3. Language is most aptly defined as a system or set of signs for communication with others.
 (a) Images (b) Visualizations (c) Symbols (d) Signs
4. Someone with a vocabulary of only 100 words can still combine the words in different ways to say thousands different things. This aspect of language is referred to as:
 (a) Syntax (b) Phonology (c) Morphology (d) Inflection/grammar
5. At what time do "Sleeping Queens" awake in *The Frog of the Lake*?
 (a) Dawn (b) Noon (c) Twilight (d) Midnight
6. In Charles's Tale of Two Cities, who promises Louis Manette that he would, if necessary, die for her?
 (a) James Lorry (b) Sydney Carton (c) Charles Darnay (d) Monsieur Darnay
7. What is the sexual relationship between Isadora and August?
 (a) Symbiotic (b) Antagonistic (c) Polygamous (d) Polysexual
8. Why doesn't August go to Ireland in George's David's John's story?
 (a) The weather is too hot for travel (b) He has come from there
 (c) He secretly loves David and can't leave her (d) He finds out Philip is in jail
9. Which does Lewis follow her mother to spy on?
 (a) New York (b) Boston (c) Both New York and Boston
 (d) Neither New York nor Boston
10. During which war does the novel, *The Whores of Wall Street*, take place?
 (a) Spanish-American War (b) Spanish Civil War
 (c) World War I (d) World War II
11. Which Russian leader does Napoleon meet in Dostoevsky's *Anna Karenina*?
 (a) Stalin (b) Trotsky (c) Tsar Nicholas (d) Alexander
12. What Russian institution does the three stories revolve in Dostoevsky's *Demons*?
 (a) The Secret Police (b) The Congress
 (c) The Russian-Orthodox Church (d) The Education Dept.
13. Dostoevsky's theory of language development emphasizes:
 (a) Learned and conditioning processes (b) Innate structures and biological determinants
 (c) The language system created by parents (d) Children's linguistic abilities
14. What accident befalls Miss Harshaw before her death in *Great Expectations*?
 (a) She is thrown from a horse (b) She falls from a window
 (c) A table crashes on top (d) She is burned in a fire

LECTURER: URSU (08-17) 2017

2017.08.07	2017.08.08
2017.08.09	2017.08.10
2017.08.11	2017.08.12
2017.08.13	2017.08.14
2017.08.15	2017.08.16
2017.08.17	2017.08.18
2017.08.19	2017.08.20
2017.08.21	2017.08.22
2017.08.23	2017.08.24
2017.08.25	2017.08.26
2017.08.27	2017.08.28
2017.08.29	2017.08.30
2017.08.31	

2017.08.07	2017.08.08
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2017.08.21	2017.08.22
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2017.08.25	2017.08.26
2017.08.27	2017.08.28
2017.08.29	2017.08.30
2017.08.31	

PUNJAB PUBLIC SERVICE COMMISSION
WRITTEN TEST FOR RECRUITMENT TO THE POST OF
LECTURER MATHEMATICS (BS-17)

(Model Paper)
 IN THE PUNJAB HIGHER EDUCATION DEPARTMENT

- Q.1. $\int_0^1 \frac{1}{x^2+1} dx$ is _____ (A) 0 (B) $\frac{\pi}{4}$ (C) $\frac{\pi}{2}$ (D) $\frac{\pi}{3}$ (E) $\frac{\pi}{6}$
- Q.2. The principal value of $\tan^{-1} 2 + \tan^{-1} 3$ is _____ (A) $\frac{\pi}{2}$ (B) $\frac{3\pi}{4}$ (C) $\frac{\pi}{4}$ (D) $\frac{5\pi}{4}$ (E) $\frac{3\pi}{2}$
- Q.3. $\sin^{-1}(\sin 2) + \cos^{-1}(\cos 3) + \tan^{-1}(\tan 4) + \cot^{-1}(\cot 5)$ is fractional when n is _____ (A) $2n\pi - \frac{\pi}{4}$ (B) $2n\pi + \frac{\pi}{4}$ (C) $2n\pi - \frac{\pi}{2}$ (D) $2n\pi + \frac{\pi}{2}$ (E) $2n\pi$
- Q.4. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ then $\int_0^1 (1-x)^{2n} dx = \frac{1}{2n+1}$ is _____ (A) 1 (B) 2 (C) 3 (D) 4 (E) 5
- Q.5. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ then $\int_0^1 (1-x)^{2n} dx = \frac{1}{2n+1}$ is _____ (A) 1 (B) 2 (C) 3 (D) 4 (E) 5
- Q.6. If ρ be the chord surface and v be the volume enclosed by ρ then $\frac{dv}{d\rho} = \frac{1}{3}\rho^2$ is _____ (A) 1 (B) 2 (C) 3 (D) 4 (E) 5
- Q.7. Parametric equations $x = \cos t, y = \sin t$ is _____ (A) circle (B) ellipse (C) parabola (D) hyperbola (E) none of these
- Q.8. Number of degrees of freedom of two particles connected by a rigid rod moving freely in a plane is _____ (A) 1 (B) 2 (C) 3 (D) 4 (E) 5
- Q.9. The normal of a surface $xyz = k$ at point (x_0, y_0, z_0) is _____ (A) (x_0, y_0, z_0) (B) $(\frac{1}{x_0}, \frac{1}{y_0}, \frac{1}{z_0})$ (C) $(\frac{1}{x_0^2}, \frac{1}{y_0^2}, \frac{1}{z_0^2})$ (D) $(\frac{1}{x_0}, \frac{1}{y_0}, \frac{1}{z_0})$ (E) $(\frac{1}{x_0^2}, \frac{1}{y_0^2}, \frac{1}{z_0^2})$
- Q.10. Moment of inertia of a rectangular plate with side a, b about an axis z to plate and passing through center is _____ (A) $\frac{1}{12}ab^3$ (B) $\frac{1}{12}a^3b$ (C) $\frac{1}{12}ab^3 + \frac{1}{12}a^3b$ (D) $\frac{1}{12}ab^3 + \frac{1}{12}a^3b$ (E) $\frac{1}{12}ab^3 + \frac{1}{12}a^3b$
- Q.11. Every bounded infinite set has at least one limit point is the statement of _____ (A) Heine-Borel Theorem (B) Bolzano-Weierstrass Theorem (C) Cantor's Theorem (D) None of these
- Q.12. $\lim_{x \rightarrow 0} \frac{1}{x} = \infty$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1
- Q.13. Taylor's theorem expansion of e^x is _____ (A) $1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$ (B) $1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$ (C) $1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$ (D) $1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$ (E) $1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$
- Q.14. Evaluate $\int_0^1 \frac{1}{x^2+1} dx$ where θ is the angle $\tan^{-1} x$ is _____ (A) 1 (B) 2 (C) 3 (D) 4 (E) 5
- Q.15. The principal value of $\tan^{-1} 2 + \tan^{-1} 3$ is _____ (A) $\frac{\pi}{2}$ (B) $\frac{3\pi}{4}$ (C) $\frac{\pi}{4}$ (D) $\frac{5\pi}{4}$ (E) $\frac{3\pi}{2}$
- Q.16. The radius of $\rho(x) = \frac{1}{x^2}$ at $x = 1$ is _____ (A) $\frac{1}{2}$ (B) $\frac{1}{3}$ (C) $\frac{1}{4}$ (D) $\frac{1}{5}$ (E) $\frac{1}{6}$
- Q.17. Radius of convergence of $\sum_{n=0}^{\infty} x^n$ is _____ (A) 1 (B) 2 (C) 3 (D) 4 (E) 5
- Q.18. $\lim_{x \rightarrow 0} \frac{1}{x} = \infty$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1
- Q.19. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1
- Q.20. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1
- Q.21. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1
- Q.22. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1
- Q.23. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1
- Q.24. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1
- Q.25. $\int_0^1 (1-x)^n dx = \frac{1}{n+1}$ is _____ (A) True (B) False (C) Doubtful (D) -1 (E) 1

