

नेपाल नागरिक उड्डयन प्राधिकरण  
प्राविधिक, मेकानिकल इन्जिनियरिङ्ग, पाँचौं, वरिष्ठ सहायक पदको  
नमूना प्रश्नपत्र

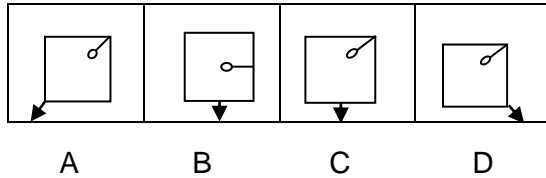
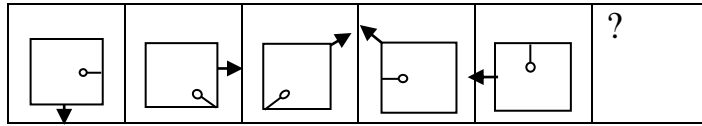
पत्र: प्रथम  
समय: ४५ मिनेट

पूर्णाङ्क : १००

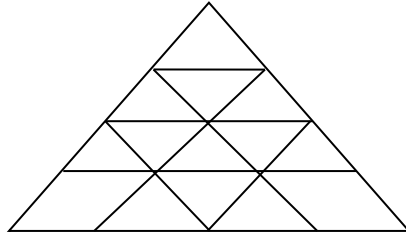
विषय : वस्तुगत बहुउत्तर (सामान्यज्ञान, बौदिक परीक्षण र सेवा सम्बन्धी, ५०×२)

1. नेपालले सर्वप्रथम हवाई सम्भौता गरेको मुलुक कुन हो ?  
A. भारत  
B. चीन  
C. बंगलादेश  
D. थाइलैण्ड
2. निम्न लिखित मध्ये कसले "POSDCORB" भन्ने शब्दावलीको प्रयोग गरेका थिए ?  
A. एल डी ह्वाइट  
B. डोनाल्ड किंगसले  
C. लुथर गुलिक  
D. रवर्ट ए साइमन
3. नेपाल नागरिक उड्डयन प्राधिकरणको स्थापना कहिले भयो ?  
A. २०५७/८/२७  
B. २०५७/९/१  
C. २०५८/८/२७  
D. २०५५/८/२७
4. नेपालमा कहिलेबाट Flight Information Center (FIC) को स्थापना गरियो ?  
A. सन् १९७५  
B. सन् १९७६  
C. सन् १९७७  
D. सन् १९७८
5. विवाहमा सिन्दुर साटासाट गर्ने चलन कुन जातिमा छ ?  
A. भाँगड  
B. राँगड  
C. सतार  
D. मुसहर
6. नेपालमा हिमरेखाको सबभन्दा तल्लो भाग कुन हो ?  
A. रुपनाला (गोरखा)  
B. गोबरकाढा (सुर्खेत)  
C. माझा (कालिकोट)  
D. जुम्ला
7. राष्ट्रिय जनगणना, २०६८ अनुसार महिला परिवालमूली रहेको परिवार प्रतिशत कुन हो ?  
A. २५.७३%  
B. २५.१०%  
C. २५.५३%  
D. २५.१५%
8. कार्यालयमा पत्राचार गर्दा अन्य निकायलाई बोधार्थ दिनुपरेमा पत्रको कुन भागमा लेखिन्छ ?  
A. दायाँ माथिल्लो  
B. दायाँ तल्लो  
C. बायाँ माथिल्लो  
D. बायाँ तल्लो
9. प्रसिद्ध खेलाडी "वैकुण्ठ मानन्धर" कुन खेलसँग सम्बन्धित ?  
A. बक्सिङ्ग  
B. दौड  
C. कराँते  
D. घोडचढी
10. विश्व बैंकको प्रधान कार्यालय कहाँ रहेको छ ?  
A. वाशिङ्गटन डि.सी.  
B. न्युयोर्क  
C. पेरिस  
D. जेनेभा

11. नेपाल र जापानबीच कहिले दौत्य सम्बन्ध कायम भएको थियो ?  
 A. सन् १९५५                      B. सन् १९५६                      C. सन् १९६०                      D. सन् १९६१
12. नयाँ विमानस्थलका लागि कार्य भएका क्षेत्रहरूमध्ये तलको कुन ठीक होईन ?  
 A. गुल्मी                              B. इलाम                              C. ओखलढुङ्गा                      D. डोल्पा
13. द्वितीय विश्वयुद्धका विभिन्न कारणहरू मध्ये तलको कुन महत्वपूर्ण हो ?  
 A. जर्मनले फ्रान्समाथि गरेको अतिक्रमण                      B. पेरिस र भर्सेलजको दुष्परिणाम  
 C. बेलायत र अमेरिकाको शीत युद्ध                              D. जर्मनको साम्राज्यवाद नीति
14. दक्षिण एसियाली क्षेत्रीय सहयोग संगठन ( SAAECA) का विभिन्न अंगहरूमध्ये तलको कुन ठीक होईन ?  
 A. सार्क प्रविधि समिति                              B. सार्क स्थायी समिति  
 C. सार्क कार्यक्रम समिति                              D. सार्क सचिवालय
15. नेपालको विराटनगर एयरपोर्ट धावनमार्गको विस्तारका लागि सहयोग गर्ने राष्ट्र कुन हो ?  
 A. संयुक्त राज्य अमेरिका                              B. बेलायत                              C. जापान                              D. चीन
16. 'Reading' is related to 'Knowledge' in the same way as 'Work' is related to :  
 A. Money                              B. Engagement                              C. Employment                              D. Experience
17. If the TABLE is coded as UACMET in a certain language, then how is CAPSULE written in that code?  
 A. BAORUKE                              B. DAQTUME                              C. BAQRUKE                              D. DAOTUME
18. Choose the word which is different from the rest.  
 A. Anger                              B. Anxiety                              C. Feeling                              D. Joy
19. Find out the alternative which will replace the question mark.  
 A. E                              B. N                              C. O                              D. T
20. Which figure should replace the question mark?

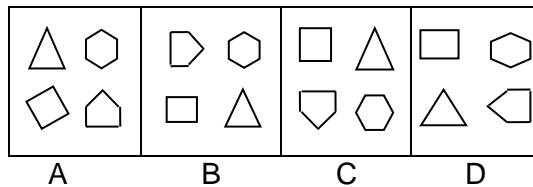


21 What is the total number of triangles in the below grid?



- A. 22      B. 23      C. 26      D. 27

22 Choose the figure which is different from the rest.

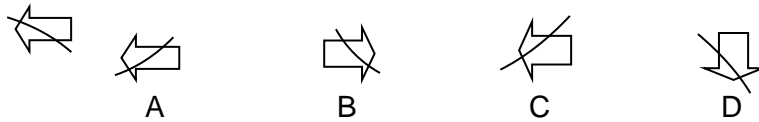


23 What is missing number?

E	C	O
B	A	B
G	B	N
D	B	?

- A. H      B. T      C. K      D. E

24 Which is the correct image from the given four images?



25 The milling machine is used for machining

- A. flat surfaces      B. contured  
C. surface of revolution      D. all of the above

26 The second law of thermodynamics defines

- A. heat      B. entropy  
C. enthalpy      D. work

27 The four operations in a four stroke cycle engine are completed in the no of revolutions of the crankshaft equal to

- A. one      B. two  
C. three      D. four

28 The heat transfer takes places according to

- A. 1<sup>st</sup> law of thermodynamics      B. zeroth law of thermodynamics  
C. 2<sup>nd</sup> law of thermodynamics      D. fourier's law

- 29 The difference between vapor compression and vapour absorption refrigeration cycle is that  
 A. absorption cycle requires more work input  
 B. absorption cycle requires less work input  
 C. vapour compression cycle requires pump  
 D. none of the above
- 30 The force of friction which exists when the body is in motion is called  
 A. static friction  
 B. limiting friction  
 C. dynamic friction  
 D. none of the above
- 31 For large air conditioning application more than TR, which type of compressor is preferably used  
 A. reciprocating  
 B. rotary  
 C. centrifugal  
 D. screw
- 32 The air fuel ratio of petrol engine is controlled by  
 A. fuel pump  
 B. governor  
 B. injector  
 D. carburetor
- 33 Which of the following motor have high starting torque  
 A. AC motor  
 B. induction motor  
 B. synchronous motor  
 D. DC series motor
- 34 Surface finish is more affected by  
 A. cutting speed  
 B. depth of cut  
 C. feed rate  
 D. lubricant
- 35 A cold chisel is made up of  
 A. mild steel  
 B. cast iron  
 C. HSS  
 D. high carbon steel
- 36 The property of a material which enables it to resist fracture due to high impact loads known as  
 A. elasticity  
 B. resilience  
 C. strength  
 D. toughness
- 37 The chemical used in generating acetylene for gas welding is  
 A. calcium carbonate  
 B. carbon  
 C. calcium carbide  
 D. argon carbide
- 38 choose the open thermodynamic system  
 A. manual ice cream freezer  
 B. centrifugal pump  
 C. pressure cooker  
 D. automobile storage battery
39. How much is 1 ton of refrigeration is SI unit ?  
 A. 3.0 KW  
 B. 210 KJ/Min  
 C. 120 KJ/Min  
 D. 10.0 KW
- 40 Pick the element of the cost from the following  
 A. direct material  
 B. direct labor  
 C. over head  
 D. all of these
- 41 The purpose of transmission in an automobile is  
 A. to vary the speed of the automobile  
 B. To vary the torque at the road wheels  
 C. to vary the power of automobile  
 D. to vary the vibration and shock to rider
- 42 .....
- 50 .....

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नमूना प्रश्नपत्र

पत्र : द्वितीय

पूर्णाङ्क : १००

समय : २ घण्टा ३० मिनेट

विषय : सेवा सम्बन्धी

प्रत्येक section को उत्तर छुट्टाछुट्टै उत्तरपुस्तिकामा लेख्नुपर्नेछ। अन्यथा उत्तरपुस्तिका रद्द हुनेछ।

1. Discuss the working principle of a Verniercaliper . 5
2. Describe any one operation that can be done in lathe machine . 5
3. Draw the front ,side and top view of the object shown in figure . 5

Figure

4. Discuss briefly with the examples fixed cost and variable cost . 5
5. Define the term internal Energy giving suitable example . 5
6. Explain any one of the laws of thermodynamics . 5
7. Describe briefly working principles of two stroke engine . 5
8. What are the three functions of piston rings ? Describe briefly . 5
9. " A stich in times saves nine " This saying supports the importance of maintenance .  
Explain in your words the importance of maintenance in an industry . 10
10. Explain briefly what do you mean by bleeding and how this technique is used to fix  
problem in the brake system of a vehicle . 5
11. Why is different used in an automobile ? 5
12. Draw the sketch of air conditioning system .5
13. Discuss briefly the working principle of catalytic convertor . 5
14. What are types of maintenance system ? Explain any one of them . 5
15. Describe any on type of depreciation . 5
16. Write any five uses of part catalogue . 5
17. What are the common safety guidelines to observe while dealing with vehicle ? 5
18. Write about different types of tyres , their rating , advantages and disadvantages . 10

-THE END-